

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 21, 2004, 22:16:05 ; Search time 1037 Seconds  
(without alignments)  
703.635 Million cell updates/sec

Title: US-10-070-882A-2  
Perfect score: 139  
Sequence: 1 ggaactcgtgcagcaact.....ctgtcttattgttaacaca 139

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : N\_Geneseq\_23Sep04:\*

1: Geneseqn1980s:\*

2: Geneseqn1990s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	139	100.0	139	4	Aaf82356 Salmonell
2	139	100.0	2802	12	Adg31136 Salmonell
3	40	28.8	41	6	AbL57265 Escherich
4	37.2	26.8	1385	8	AcA49482 Prokaryot
5	32.6	23.5	266145	10	AdB87477 Fowlipox v
6	31	22.3	772	6	AbQ72598 Human MDD
7	31	22.3	810	6	AbQ72685 Human MDD
8	30.8	22.2	19521	4	AaK81193 Human imm
9	30.8	22.2	19521	8	AdA41637 Human sec
10	30.8	22.2	19521	10	AdA57769 BAC fragm
11	30.6	22.0	1539	8	AcA02032 C. glutam
12	30.6	22.0	2799	5	AaH67957 C glutami
13	30.6	22.0	349980	5	AaH85533 C glutami
14	30.4	21.9	31241	10	AdB63515 Mycoplasma
15	30.4	21.9	31241	10	Acc69145 M. genital
16	30.4	21.9	31241	12	AdA48950 Mycoplasma
17	30.4	21.9	104644	6	AbQ99653 Human MS4
18	30.2	21.7	110000	9	AdB12064 03
19	30	21.6	622	12	AdJ38283 Plastid d
20	30	21.6	10711	4	AaK74790 Human imm
21	29.8	21.4	301	3	AaA06526

22	29.8	21.4	301	4	AaH93642
23	29.8	21.4	301	4	AaS63734
24	29.8	21.4	301	4	AaH02707
25	29.8	21.4	301	4	AaH84956
26	29.8	21.4	301	5	ACA59543
27	29.8	21.4	301	6	ABL95106
28	29.8	21.4	301	8	ACC95270
29	29.8	21.4	301	10	ADBL13743
30	29.8	21.4	301	10	ADG26159
31	29.8	21.4	340	5	ABV07484
32	29.8	21.4	409	5	ABV37417
33	29.8	21.4	492	6	ABL64736
34	29.8	21.4	492	6	ABL65652
c	29.8	21.4	1140	10	ADC92238
35	29.8	21.4	1448	2	AAZ33468
36	29.8	21.4	2143	2	AAZ42062
37	29.8	21.4	2654	6	ABS57323
38	29.8	21.4	2700	4	ABL28364
c	29.8	21.4	2840	12	ADP64619
40	29.8	21.4	2862	10	ADB63189
41	29.8	21.4	3017	4	AAF29360
42	29.8	21.4	3017	5	AAF93907
43	29.8	21.4	3017	5	AAF93907
44	29.8	21.4	3042	8	ACC50169
45	29.8	21.4	3042	10	ADB75331
46	29.8	21.4	3042	10	ADD18542
47	29.8	21.4	3045	4	AAH14672
48	29.8	21.4	3051	3	AAH14672
49	29.8	21.4	3079	12	ADP64620
50	29.8	21.4	3154	6	ABQ99606
51	29.8	21.4	3174	3	AAZ26421
52	29.8	21.4	3174	12	ADL71482
53	29.8	21.4	3210	5	ABV25476
54	29.8	21.4	4042	8	ABZ35869
55	29.6	21.3	2940	11	ADN95667
56	29.6	21.3	2941	10	ADD71105
57	29.6	21.3	87980	8	ADD53223_4
c	29.6	21.2	2087	4	AAH15446
58	29.4	21.2	32249	4	AAI04789
59	29.4	21.2	32249	4	ABL97684
60	29.4	21.2	32249	4	ABL97684
c	61	29.4	43602	6	ABS78851
62	29.4	21.2	43602	10	ADH80418
c	63	29.2	720	10	ABX06274
c	64	29.2	3000	4	AAD20312
c	65	29.2	3000	4	AAD20311
c	66	29.2	16593	2	AAV52185
c	67	29.2	110000	10	ABS56454_04
c	68	29	3010	3	AAA26920
69	29	30.9	3010	4	AAF91602
70	29	30.9	3010	4	AAH08071
71	29	30.9	3010	10	ADD67449
72	29	30.9	3010	10	ADB73673
c	73	28.6	485	4	AAI14190
c	74	28.6	485	4	ABA55917
c	75	28.6	485	4	ABA25583
c	76	28.6	485	4	ABA25583
c	77	28.6	485	4	ABS29249
c	78	28.6	485	6	ABS04169
c	79	28.6	2676	2	AAV55042
c	80	28.6	16397	2	AAV74516
c	81	28.4	984	8	ACF74642
c	82	28.4	1092	3	AAZ51212
83	28.4	20.4	1092	6	ADB42202
84	28.4	20.4	1301	12	ADM77936
c	85	28.4	1320	2	AAH43930
c	86	28.4	1320	2	AAH72050
c	87	28.4	2000	10	ACC60950
88	28.4	20.4	2000	10	ADK62457
89	28.4	20.4	4676	12	ADM77938
90	28.4	20.4	5549	2	AAV74499
c	91	28.2	145	8	ACC79383
c	92	28.2	1242	9	ADA30447
c	93	28.2	1323	10	ADK61275
c	94	28.2	1323	10	ADK63695

c 95 28.2 20.3 2307 2 AAV43009  
 Aav43009 Streptococ  
 c 96 28.2 20.3 2787 2 AAZ96363  
 Aaz96363 S. pneumo  
 c 97 28.2 20.3 3005 4 AAD20313  
 Aad20313 Streptoco  
 98 28.2 20.3 3563 10 ADE58284  
 Ades58284 Human gen  
 99 28.2 20.3 3798 2 AAQ2424  
 Aaq2424 AD2 DNA.  
 c 100 28.2 20.3 5311 10 ADD29639  
 Add29639 Mouse tum

## ALIGNMENTS

RESULT 1  
 AAF82356  
 ID AAF82356 standard; DNA; 139 BP.  
 XX  
 AC AAF82356;  
 XX  
 DT 22-JUN-2001 (first entry)  
 XX  
 DE Salmonella typhimurium phoP gene promoter.  
 XX  
 DE Salmonella typhimurium; phoP gene promoter; PphoP; antibacterial;  
 KW antiviral; vaccine; lacZ; pagC; outer membrane porin C; ompC;  
 KW transgenic microorganism; antigen production; antigen delivery;  
 KW infection; ds.  
 XX  
 OS Salmonella typhimurium.  
 XX  
 XX  
 PN WO200119974-A2.  
 XX  
 PD 22-MAR-2001.  
 XX  
 XX 06-SEP-2000; 2000WO-GB003402.  
 XX  
 PF 10-SEP-1999; 99GB-00021275.  
 PR 12-JUL-2000; 2000GB-00017000.  
 PR  
 XX (MINA ) UK SEC FOR DEFENCE.  
 PA  
 XX Titball RW, Bullifent HJ;  
 XX  
 DR WPI; 2001-328017/34.  
 XX  
 PT New recombinant gut-colonizing microorganism, useful as vaccine  
 PT component, comprises construct containing phoP, pagC or ompC gene  
 PT promoter linked to nucleic acid encoding protein that induces immune  
 PT response against pathogen.  
 XX  
 PS Claim 1; Fig 6; 33pp; English.  
 XX  
 CC The present sequence is a DNA fragment comprising the phoP gene promoter.  
 CC DNA fragments comprising the Salmonella typhimurium phoP, pagC and ompC  
 CC gene promoters were integrated into a vector used to transform a  
 CC recombinant gut-colonising microorganism. The promoter was operably  
 CC linked to a nucleic acid encoding a protein that is able to induce a  
 CC protective immune response against an organism in a mammal. The construct  
 CC is useful for enhancing expression of a desired protein at mucosal  
 CC effector sites. It is useful for delivering a variety of antigenic agents  
 CC which can be used to induce a protective immune response against a wide  
 CC range of pathogens such as bacillus anthracis, Bordetella pertussis,  
 CC Schistosoma mansoni, herpes simplex virus, and Mycobacterium tuberculosis.  
 CC The three promoters (P(phoP), P(pagC) and P(ompC)) are induced at  
 CC different stages in the infection process, and hence at different sites  
 CC in the body. This approach allows the induction of different immune  
 CC responses which provide protection against pathogens which colonise  
 CC different host cell compartments. The Salmonella vaccine vector system is  
 CC ideally suited to the delivery of many vaccine antigens since the vaccine  
 CC delivery mechanism accurately mimics the natural disease, entering the  
 CC body via the gut  
 XX  
 SQ Sequence 139 BP; 37 A; 33 C; 23 G; 46 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 139; DB 4; Length 139;

Best Local Similarity 100.0%; Pred. No. 5.6e-36;  
 Matches 139; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GTGACTCTGTCGACGAACCTTAATAATGCGCTGCCTCACCTCTTTTCTTCAGAAAGG 60  
 DB 1 GTGACTCTGTCGACGAACCTTAATAATGCGCTGCCTCACCTCTTTTCTTCAGAAAGG 60  
 QY 61 GTGACTATTGCTGCTTTTATTAACTGTTATCCCAAGACCACTAATCAACGCTAGAC 120  
 DB 61 GTGACTATTGCTGCTTTTATTAACTGTTATCCCAAGACCACTAATCAACGCTAGAC 120  
 QY 121 TGTTCCTATTGTTAAACACA 139  
 DB 121 TGTTCCTATTGTTAAACACA 139  
 RESULT 2  
 ADG31136  
 ID ADG31136 standard; DNA; 2802 BP.  
 XX  
 AC ADG31136;  
 XX  
 DT 26-FEB-2004 (first entry)  
 DT  
 XX  
 DE Salmonella typhimurium PphoPQ and phoPQ operon DNA.  
 XX  
 KW live attenuated derivative; pathogenic Enterobacteriaceae;  
 KW cross protective immunity; antibacterial; immunostimulant; vaccine;  
 KW PphoPQ; promoter; phoPQ operon; ds; gene.  
 XX  
 OS Salmonella typhimurium.  
 XX  
 PN WO2003096812-A1.  
 XX  
 PD 27-NOV-2003.  
 XX  
 PF 15-APR-2003; 2003WO-US011802.  
 XX  
 PR 15-APR-2002; 2002US-0372616P.  
 PR 18-APR-2002; 2002US-0373626P.  
 XX  
 PA (UNIW ) UNIV WASHINGTON.  
 XX  
 PI Curtiss R;  
 XX  
 DR WPI; 2004-042484/04.  
 DR P-PSDB; ADG31137, ADG31138, ADG31139.  
 XX  
 PT New live attenuated derivative of a pathogenic Enterobacteriaceae  
 PT species, useful as a vaccine for inducing cross protective immunity  
 PT against infections caused by various Enterobacteriaceae strains or  
 PT serotypes.  
 XX  
 PS Example 17; Fig 28; 133pp; English.  
 XX  
 CC The invention relates to a novel live attenuated derivative of a  
 CC pathogenic Enterobacteriaceae species having enhanced ability to induce  
 CC cross protective immunity against Enterobacteriaceae. The derivative of  
 CC the invention demonstrates antibacterial and immunostimulant activities  
 CC and may be useful as a vaccine for inducing a high level immune response  
 CC and/or cross protective immune response to protect individuals from  
 CC infection from a diversity of species or serotypes of bacterial  
 CC pathogens. The current sequence is that of the Salmonella typhimurium  
 CC PphoPQ and phoPQ operon DNA of the invention.  
 XX  
 SQ Sequence 2802 BP; 721 A; 702 C; 724 G; 655 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 139; DB 12; Length 2802;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-35;  
 Matches 139; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GTGACTCTGTCGACGAACCTTAATAATGCGCTGCCTCACCTCTTTTCTTCAGAAAGG 60

Db 511 GTGACTCTGGTCGACGAACCTTAATAATGCGTCGCTCACCCCTCTTTCTTCAGAAAGAGG 570

QY 61 GTGACTATTGTCTGCTTTATTAACTGTTTATCCCAAGACCAATCAACGCTAGAC 120  
|||||

Db 571 GTGACTATTGTCTGCTTTATTAACTGTTTATCCCAAGACCAATCAACGCTAGAC 630  
|||||

QY 121 TGTCTCTATTGTTAAACACA 139  
|||||

Db 631 TGTCTCTATTGTTAAACACA 649  
|||||

RESULT 3

ABL57265

ID ABL57265 standard; DNA; 41 BP.

AC ABL57265;

XX

DT 09-AUG-2002 (first entry)

XX

DE Escherichia coli DNA 5' to phoA coding region.

XX

KW Transcription terminator; trpA; attenuation; vaccine; virucide;

KW antibacterial; fungicide; antiparasitic; protozoacide; phoA; ds.

XX

OS Escherichia coli.

XX

FH Key

FT misc\_feature 1..19 Location/Qualifiers

FT /\*tag= a

FT /note= "5' single-stranded overhang"

FT 41

FT /\*tag= b

FT /note= "5' overhang on complementary strand of 4 bases

FT with sequence 5'-GATC-3'"

XX

PN WO200230457-A2.

XX

PD 18-APR-2002.

XX

PF 11-OCT-2001; 2001WO-US031606.

XX

PR 12-OCT-2000; 2000US-00689123.

XX

XX (UNIW ) UNIV WASHINGTON.

PA (MEGA-) MEGAN HEALTH INC.

PA (CURT/) CURTISS R.

PA (TING/) TINGE S A.

XX

PI Curtiss R, Tinge SA;

XX

DR WPI; 2002-444150/47.

XX

XX Composition comprising microbe having attenuating mutation that comprises

PT insertion sequence containing recombinant transcription terminator,

PT useful as vaccine, and for delivering a desired gene product to

PT individual.

XX

PS Example 5; Fig 11; 91pp; English.

XX

CC The present sequence is that of DNA located 5' to the phoA coding

CC sequence of Escherichia coli. The sequence was used to illustrate an

CC example of the invention relating to deletion of the phoA gene and

CC replacement with a trpA terminator. The phoA mutation was introduced into

CC Salmonella typhimurium SL1344 to produce strain MGN-1362. The present

CC invention is based on the discovery that transcription terminators (TTs)

CC can be inserted in a bacterial gene in an attenuating strategy which not

CC only attenuates the virulence of the bacteria, but also serves to

CC restrict the effect of the attenuating mutation to the target gene or

CC operon of the bacteria. A claimed vaccine comprises a microorganism

CC having an attenuating mutation in a chromosomal gene, the mutation

CC comprising an insertion sequence which contains a recombinant TT, such as

CC trpA. The microorganism is preferably Salmonella, Shigella or

CC Escherichia, and the TT is preferably inserted in the phoP gene. The

CC vaccine may further comprise a recombinant gene encoding a desired gene

CC product from a virus, bacterium, protozoan, parasite or fungus, or

CC encodes an autoantigen, gamete-specific antigen or an allergen. The

CC attenuated microorganism is also used in a claimed method for delivering

CC a desired gene product to an individual

XX

SQ Sequence 41 BP; 10 A; 13 C; 4 G; 14 T; 0 U; 0 Other;

Query Match 28.8%; Score 40; DB 6; Length 41;

Best Local Similarity 100.0%; Pred. No. 0.0021;

Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TCGACGAACCTTAATAATGCGTCGCTCACCCCTCTTTCTT 50  
|||||

Db 1 TCGACGAACCTTAATAATGCGTCGCTCACCCCTCTTTCTT 40  
|||||

RESULT 4

ACA49482

ID ACA49482 standard; DNA; 1385 BP.

XX

XX ACA49482;

XX

DT 19-JUN-2003 (first entry)

XX

DE Prokaryotic essential gene #31139.

XX

KW Antisense; ds; prokaryotic essential gene; cell proliferation;

KW drug design; gene.

XX

OS Salmonella paratyphi.

XX

PN WO200277183-A2.

XX

PD 03-OCT-2002.

XX

PF 21-MAR-2002; 2002WO-US009107.

XX

PR 21-MAR-2001; 2001US-00815242.

PR 06-SEP-2001; 2001US-00948993.

PR 25-OCT-2001; 2001US-0342923P.

PR 08-FEB-2002; 2002US-00072851.

PR 06-MAR-2002; 2002US-0362699P.

XX

XX (ELIT-) ELITRA PHARM INC.

XX

XX Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;

PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;

DR WPI; 2003-029926/02.

DR P-PSDB; ABU45612.

XX

XX New antisense nucleic acids, useful for identifying proteins or screening

PT for homologous nucleic acids required for cellular proliferation to

PT isolate candidate molecules for rational drug discovery programs.

XX

PS Claim 14; SEQ ID NO 37352; 1766pp; English.

XX

CC The invention relates to an isolated nucleic acid comprising any one of

CC the 6213 antisense sequences given in the specification where expression

CC of the nucleic acid inhibits proliferation of a cell. Also included are:

CC (1) a vector comprising a promoter operably linked to the nucleic acid

CC encoding a polypeptide whose expression is inhibited by the antisense

CC nucleic acid; (2) a host cell containing the vector; (3) an isolated

CC polypeptide or its fragment whose expression is inhibited by the

CC antisense nucleic acid; (4) an antibody capable of specifically binding

CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular

CC proliferation or the activity of a gene in an operon required for

CC proliferation; (7) identifying a compound that influences the activity of

CC the gene product or that has an activity against a biological pathway

CC required for proliferation, or that inhibits cellular proliferation; (8)

CC identifying a gene required for cellular proliferation or the biological

CC pathway in which a proliferation-required gene or its gene product lies









CC	diagnosing or treating cancer or other hyperproliferative disorder. The
CC	polypeptides and nucleic acid molecules are also useful for detecting,
CC	preventing, diagnosing, prognosticating, treating or ameliorating cancer
CC	or other hyperproliferative disorders including neoplasms, autoimmune
CC	disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
CC	erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
CC	anaemia), haematopoietic or haematological disorders (e.g. anaemia,
CC	thrombocytopenia), allergic reactions including asthma or eczema,
CC	inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
CC	bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
CC	Alzheimer's disease or Parkinson's disease), cardiovascular disorders
CC	(e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
CC	fungal or viral infections including HIV/AIDS), or wound healing and
CC	disorders of epithelial cell proliferation. The nucleic acids are also
CC	useful for chromosome identification, radiation hybrid mapping or long-
CC	range restriction mapping, as molecular weight markers, or as
CC	hybridization or diagnostic probes. The polypeptides and antibodies are
CC	useful for providing immunological probes for differential identification
CC	of the tissues immunohistochemistry assays. The sequences given in
CC	ADA040803-ADA41665 represent DNA sequences related to human secreted
CC	proteins. Note: The sequence data for this patent did not form part of
CC	the printed specification, but was obtained in electronic format directly
CC	from WIPO at <a href="http://ftp.wipo.int/pub/published_pct_sequences">ftp.wipo.int/pub/published_pct_sequences</a> .
XX	
SQ	Sequence 19521 BP; 5672 A; 3465 C; 3902 G; 6482 T; 0 U; 0 Other;
	Query Match 22.2%; Score 30.8; DB 8; Length 19521;
	Best Local Similarity 63.5%; Pred. No. 13;
	Matches 47; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
QY	1 GTCACTCTGTCGACGCAACTTAAATATAGCCTGCCTCACCTCTTTTCTTCAGAAAGG 60
Db	1311 GTAACCTGGGCAACTTACATAAACTCTGTGCTCAGCTTCTGCACCTGAGAAAGG 1252
QY	61 GTCACTATTGTCT 74
Db	1251 CTAAACAATTCCTAT 1238
RESULT 10	
ID	ADA57769/c
ID	ADA57769 standard; DNA; 19521 BP.
XX	ADA57769;
AC	
XX	
DT	20-NOV-2003 (first entry)
XX	
DE	BAC fragment containing human secreted protein gene #505.
XX	
KW	immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;
KW	cytostatic; cerebroprotective; neuroprotective; neurotropic;
KW	cardiovascular; antiarteriosclerotic; gene therapy;
KW	human secreted protein; immune disorder; inflammation;
KW	respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW	inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;
KW	multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW	Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW	triple helix formation; antisense gene therapy; forensic biology; ds;
KW	gene; bacterial artificial chromosome.
OS	Homo sapiens.
XX	
FN	WO2002102994-A2.
XX	
PD	27-DEC-2002.
XX	
PF	19-MAR-2002; 2002WO-US008278.
XX	
PR	21-MAR-2001; 2001US-0277340P.
PR	19-JUL-2001; 2001US-0306171P.
PR	13-NOV-2001; 2001US-0331287P.
XX	
PA	(HUMA-) HUMAN GENOME SCI INC.

	Rosen CA, Ruben SM; WPI; 2003-167512/16.
New	human secreted polypeptides and polynucleotides, useful for diagnosing, treating or preventing e.g. immune disorders, inflammatory conditions, respiratory disorders, cancers, CNS disorders, or neurodegenerative disorders,
CNS	disorders, cancers, CNS disorders, or neurodegenerative disorders.
Dis	closure; SEQ ID NO 1962; 1754pp; English.
The	invention relates to 592 new human secreted polypeptides useful for diagnosing, treating or preventing e.g. immune disorders, inflammatory conditions, respiratory disorders, cancers, CNS disorders, or neurodegenerative disorders, or polypeptides comprising an amino acid sequence at least 95% identical to the new sequences. The polypeptides, antibodies or antibody fragments that bind to the polypeptides, nucleic acids encoding the polypeptides, agonists or antagonists that binds to the polypeptide, are useful in preparing diagnostic or pharmaceutical compositions for diagnosing, treating or preventing an e.g. immune disorder, inflammatory conditions (e.g. inflammatory bowel disease, nephritis or Crohn's disease), respiratory disorders (e.g. asthma and allergy), cancers (e.g. gastric, ovarian or lung cancer). CNS disorders (e.g. multiple sclerosis or ischemic brain injury), neurodegenerative disorders (e.g. Parkinson's disease or Alzheimer's disease), and cardiovascular disorders (e.g. atherosclerosis or myocarditis). The polynucleotides are useful for chromosome identification, chromsome mapping, for controlling gene expression through triple helix formation or antisense DNA or RNA, in gene therapy, for identifying individuals from minute biological samples, in forensic biology, and as hybridization probes. The polypeptides are useful for as molecular weight markers on sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) gels, to raise antibodies, for testing biological activities, and for treating or preventing neural disorders, immune system disorders, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, proliferative and/or cancerous diseases. This sequence corresponds to a bacterial artificial chromosome (BAC) fragment containing the gene encoding one of the polypeptides of the invention. Note: The sequence data for this patent did form part of the printed specification, but was obtained in electronic format directly from WIPO at <a href="http://ftp.wipo.int/pub/published_pct_sequences">ftp.wipo.int/pub/published_pct_sequences</a> .
SQ	Sequence 19521 BP; 5672 A; 3465 C; 3902 G; 6482 T; 0 U; 0 Other;
Query Match	22.2%; Score 30.8; DB 10; Length 19521;
Best Local Similarity	63.5%; Pred.No.13;
Matches	4; Conservative 0; Mismatches 27; Indels 0; Gaps 0
QY	1 GTGACTGTGGTCGCAGCAACTTAAATATATGCCCTCGCCTCACCCCTCTTTTCTTCAGAAGAGG 60
Dd	1311 GTAACCTGGGCAACTTACATAAACCCTCTGTGGCTTGCCCTTGCCACCTTGAGAAAAGG 1251
QY	61 GTGACTATTGTCT 74
Dd	1251 CTAAACAATTCCTAT 1238
RESULT 11	
ICAD02032	ID ACA02032 standard; DNA; 1539 BP.
XX AC	ACA02032;
DT DT	04-JUN-2003 (first entry)
DE DE	C. glutamicum derived ORF SEQ ID 2023.
KW KW	Corynebform; nucleic acid array; fermentation; culture; ds.
OS OS	Corynebacterium glutamicum.
PX PX	DE10128510-A1.



XX PD 19-DEC-2002.  
 XX PF 13-JUN-2001; 2001DE-01028510.  
 XX PR 13-JUN-2001; 2001DE-01028510.  
 XX PA (DEGS ) DEGUSSA AG.  
 XX PI Farwick M, Moeckel B, Pfeifferle W, Bathe B, Huthmacher K;  
 XX DR WPI; 2003-279970/28.  
 XX PT New nucleic acid array useful for monitoring mRNA expression of  
 PT Corynebacterium glutamicum during fermentation, comprising nucleic acid  
 PT from Corynebacterium glutamicum.  
 XX PS Claim 1; Page 665-666; 709pp; German.  
 XX CC This invention describes a novel nucleic acid array involving  
 CC Corynebacterium glutamicum polynucleotides. The arrays are used to  
 CC analyse C. glutamicum, particularly for monitoring a fermentation process  
 CC to determine expression levels of C. glutamicum cellular mRNA. Such  
 CC monitoring particularly differentiates between expression levels of  
 CC different strains of C. glutamicum and allows the adjustment of different  
 CC culture and fermentation conditions. ACA00010-ACA02188 represent C.  
 CC glutamicum derived polynucleotides described in the disclosure of the  
 CC invention  
 XX SQ Sequence 1539 BP; 393 A; 394 C; 414 G; 338 T; 0 U; 0 Other;  
 Query Match 22.0%; Score 30.6; DB 8; Length 1539;  
 Best Local Similarity 53.8%; Pred. No. 7.5;  
 Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;  
 QY 17 AACTTAATAATGCGCTCCACCTCTTTCTTCAGAAAGAGGGTGACTATTGTCTGG 76  
 DB 241 AACGTCATTGATGGCAGCGAAGGCATGCTTCATGCGAAGAACTCAACCCATTGGTGGG 300  
 QY 77 TTTATTAACTGTTTATCCCAAGACCAATAATCAACGCTAGACTGTTCTATTGTT 133  
 DB 301 ATCATCGACAGTGTCTGTTTCACACCAACCAANTTCCCGATCCAACTGATCGGT 357  
 RESULT 12  
 AAH67957  
 ID AAH67957 standard; DNA; 2799 BP.  
 XX AC AAH67957;  
 XX DT 26-SEP-2001 (first entry)  
 XX DE C glutamicum coding sequence fragment SEQ ID NO: 2992.  
 XX KW Corynebacterium; amino acid synthesis; vitamin; saccharide;  
 XX KW organic acid synthesis; ds.  
 XX OS Corynebacterium glutamicum.  
 XX PN EP1108790-A2.  
 XX PD 20-JUN-2001.  
 XX PF 18-DEC-2000; 2000EP-00127688.  
 XX PR 16-DEC-1999; 99JP-00377484.  
 XX PR 07-APR-2000; 2000JP-00159162.  
 XX PR 03-AUG-2000; 2000JP-00280988.  
 XX PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 XX PI Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;  
 PI Tateishi N, Senoh A, Ikeda M, Ozaki A;

XX DR WPI; 2001-376931/40.  
 XX DR P-PSDB; AAG92738.  
 XX PT Novel polynucleotides derived from Coryneform bacteria, for identifying  
 PT mutation point of a gene, measuring expression of a gene, analyzing  
 PT expression profile or pattern of a gene and identifying homologous gene.  
 XX PS Claim 8; SEQ ID NO 2992; 246pp + Sequence Listing; English.  
 XX CC The present invention provides a number of nucleotide and protein  
 CC sequences from the Coryneform bacterium Corynebacterium glutamicum. These  
 CC are useful for identifying the mutation point of a gene derived from a  
 CC mutant of coryneform bacterium, measuring expression amount and analysing  
 CC the expression profile or expression pattern of a gene derived from  
 CC Coryneform bacterium, and identifying a homologue of a gene derived from  
 CC coryneform bacterium. Coryneform bacteria are useful for producing amino  
 CC acids, nucleic acids, vitamins, saccharides and organic acids,  
 CC particularly L-lysine. The present sequence is a nucleic acid described  
 CC in the exemplification of the invention. Note: The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from the European Patent Office  
 XX SQ Sequence 2799 BP; 715 A; 731 C; 728 G; 625 T; 0 U; 0 Other;  
 Query Match 22.0%; Score 30.6; DB 5; Length 2799;  
 Best Local Similarity 53.8%; Pred. No. 8.9;  
 Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;  
 QY 17 AACTTAATAATGCGCTCCACCTCTTTCTTCAGAAAGAGGGTGACTATTGTCTGG 76  
 DB 271 AACGTCATTGATGGCAGCGAAGGCATGCTTCATGCGAAGAACTCAACCCATTGGTGGG 330  
 QY 77 TTTATTAACTGTTTATCCCAAGACCAATAATCAACGCTAGACTGTTCTATTGTT 133  
 DB 331 ATCATCGACAGTGTCTGTTTCACACCAACCAANTTCCCGATCCAACTGATCGGT 387  
 RESULT 13  
 AAH68533/c  
 ID AAH68533 standard; DNA; 349980 BP.  
 XX AC AAH68533;  
 XX DT 26-SEP-2001 (first entry)  
 XX DE C glutamicum coding sequence fragment SEQ ID NO: 7068.  
 XX KW Corynebacterium; amino acid synthesis; vitamin; saccharide;  
 XX KW organic acid synthesis; ds.  
 XX OS Corynebacterium glutamicum.  
 XX PN EP1108790-A2.  
 XX PD 20-JUN-2001.  
 XX PF 18-DEC-2000; 2000EP-00127688.  
 XX PR 16-DEC-1999; 99JP-00377484.  
 XX PR 07-APR-2000; 2000JP-00159162.  
 XX PR 03-AUG-2000; 2000JP-00280988.  
 XX PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 XX PI Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;  
 PI Tateishi N, Senoh A, Ikeda M, Ozaki A;  
 XX DR WPI; 2001-376931/40.  
 XX PT Novel polynucleotides derived from Coryneform bacteria, for identifying  
 PT mutation point of a gene, measuring expression of a gene, analyzing  
 PT expression profile or pattern of a gene and identifying homologous gene.

XX Disclosure; SEQ ID NO 7068; 246bp + Sequence Listing; English.

XX The present invention provides a number of nucleotide and protein

XX sequences from the Corynebacterium Corynebacterium glutamicum. These

XX are useful for identifying the mutation point of a gene derived from a

XX mutant of corynebacterium, measuring expression amount and analysing

XX the expression profile or expression pattern of a gene derived from

XX Corynebacterium bacterium, and identifying a homologue of a gene derived from

XX Corynebacterium bacterium. Corynebacterium bacteria are useful for producing amino

XX acids, nucleic acids, vitamins, saccharides and organic acids,

XX particularly L-lysine. The present sequence is a nucleic acid described

XX in the exemplification of the invention. Note: The sequence data for this

XX patent did not form part of the printed specification, but was obtained

XX in electronic format directly from the European Patent Office

XX

XX Sequence 349980 BP; 81250 A; 97718 C; 90621 G; 80391 T; 0 U; 0 Other;

Query Match 22.0%; Score 30.6; DB 5; Length 349980;

Best Local Similarity 53.8%; Pred. No. 35;

Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

Qy 17 AACTTAATAATGCTGCTCCCTCAACCTCTTTCTTCAGAAAGAGGGTGACTATTGTCTGG 76

Db 200056 AACGTCATTGATGCGACGAGGCGATGCTTCATGCGAAGAACTCAACCCATTGGTTGG 199997

Qy 77 TTTATTAACTGTTTATCCCAAGCACCATAATCAACGCTAGACTGTTCTATTGTT 133

Db 199996 ATCATCGACAGTGTCTGTTACACCAAAATTCACGATCCAACTGATCGGT 199940

RESULT 14

AD63515/c

ID AAD63515 standard; DNA; 31241 BP.

XX

XX AAD63515;

XX

DT 12-FEB-2004 (first entry)

XX

XX Mycoplasma genitalium gene involved in transport and binding.

XX

XX Genetic operating system; nanomachine genome; bioreactor; bioremediation;

XX therapeutic biomolecule; energy conversion system; processing system;

XX anabolic; catabolic system; biological film; cosmetic application;

XX coating; ds.

XX

XX Mycoplasma genitalium.

XX

XX US2003138777-A1.

XX

XX 24-JUL-2003.

XX

XX 20-SEP-2001; 2001US-00960858.

XX

XX 20-SEP-2001; 2001US-00960858.

XX

XX (EVAN/) EVANS G A.

XX

XX Evans GA;

XX

XX WPI; 2003-851721/79.

XX

XX Basic genetic operating system for an autonomous prototrophic

XX nanomachine, comprises a nanomachine genome encoding a minimal gene set.

XX

XX Example 1; Page 127-141; 170pp; English.

XX

XX The invention relates to a basic genetic operating system which comprises

XX a nanomachine genome encoding a minimal gene set for viability. The basic

XX genetic operating system is used for an autonomous prototrophic

XX nanomachine or autonomous autotrophic nanomachine. The nanomachine is

XX used as a bioreactor, for bioremediation, for production of a therapeutic

XX biomolecule or as therapeutic agent, for production of a diagnostic

CC indicator or as a diagnostic reagent, as a delivery system, as an

CC artificial tissue or organ system, an energy conversion system, as a

CC processing system, as an anabolic or catabolic system, for production of

CC biological films or coatings that may respond to the environment and for

CC cosmetic applications including pharmaceuticals. The present sequence is

XX Mycoplasma genitalium nanomachine gene

XX

XX Sequence 31241 BP; 10733 A; 4570 C; 5361 G; 10577 T; 0 U; 0 Other;

Query Match 21.9%; Score 30.4; DB 10; Length 31241;

Best Local Similarity 55.8%; Pred. No. 20;

Matches 58; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy 34 CCTCACCTCTTTCTTCAGAAAGGCGTGACTATTGTCTGTTTATTAACTGTTATC 93

Db 25866 CCTCAGCCAAATTTTTTTTAAACCAAGTGGAGTTTACCATCTGGTTTCTTCTGTC 25807

Qy 94 CCCAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAACA 137

Db 25806 ATTAAAGAACGCTATCAATCTATACCCCTTTTGTGCTAAAA 25763

RESULT 15

ACC69145/c

ID ACC69145 standard; DNA; 31241 BP.

XX

XX ACC69145;

XX

DT 10-JUL-2003 (first entry)

XX

XX M. genitalium transport and binding gene cassette DNA SEQ ID NO:13.

XX

XX Mycoplasma genitalium; gene cassette; replication; transcription;

XX translation; metabolism; basic genetic operating system; gene therapy;

XX autonomous prototrophic nanomachine; autotrophic nanomachine;

XX nanomachine; bioreactor; bioremediation; therapeutic; delivery system;

XX artificial tissue; artificial organ system; energy conversion system;

XX processing system; anabolic system; catabolic system; biological film;

XX biological coating; cosmetic; gene; ds.

XX

XX Mycoplasma genitalium.

XX

XX WO2003025145-A2.

XX

XX 27-MAR-2003.

XX

XX 18-SEP-2002; 2002WO-US029811.

XX

XX 20-SEP-2001; 2001US-00960870.

XX

XX (EGEA-) EGEA BIOSCIENCES INC.

XX

XX Evans GA;

XX

XX WPI; 2003-354602/33.

XX

XX New basic genetic operating system for autonomous prototrophic or

XX autotrophic nanomachine, useful for therapeutic, diagnostic or industrial

XX purposes, comprises a nanomachine genome encoding a gene set for

XX viability or replication.

XX

XX Example 1; Page 231-240; 250pp; English.

XX

XX The present invention describes a basic genetic operating system for an

XX autonomous prototrophic or autotrophic nanomachine comprising a

XX nanomachine genome encoding a minimal gene set sufficient for viability

XX or replication, optionally in the presence of an autotrophic molecule.

XX Also described is an autonomous prototrophic or autotrophic nanomachine

XX comprising a basic genetic operating system for autonomous prototrophic

XX or autotrophic viability or replication, optionally in the presence of an

XX autotrophic molecule, and a particle envelope. The nanomachines can be

XX used in gene therapy. The basic genetic operating system or nanomachine

XX is useful in therapeutic, diagnostic and industrial applications, e.g. as

QY 34 CCTCACCCCTCTTTTCTTCAGAAAGAGGGTGACTATTTGTCTGGTTATTAACTGTTTATC 93

FT exon /cons splice= (5'site:YES,3'site:NO)  
65149..65277  
/\*tag= P  
/number= 2  
FT intron 65278..66763  
/\*tag= q  
/number= 2  
FT exon 66764..66820  
/\*tag= r  
/number= 3  
FT intron 66821..68117  
/\*tag= s  
/number= 3  
FT exon 68118..68270  
/\*tag= t  
/number= 4  
FT intron 68271..82001  
/\*tag= u  
/number= 4  
FT exon 82002..82109  
/\*tag= v  
/number= 5  
FT CDS 91488..101286  
/\*tag= x  
/product= "MS4A12"  
/note= "Contains 5 introns"  
91488..91760  
/\*tag= y  
/number= 1  
FT intron 91761..95209  
/\*tag= z  
/number= 1  
FT exon 95210..95347  
/\*tag= aa  
/number= 2  
FT intron 95348..96147  
/\*tag= ab  
/number= 2  
FT exon 96148..96204  
/\*tag= ac  
/number= 3  
FT intron 96205..97864  
/\*tag= ad  
/number= 3  
FT exon 97865..97981  
/\*tag= ae  
/number= 4  
FT intron 97982..100889  
/\*tag= af  
/number= 4  
FT exon 100890..101000  
/cons splice= (5'site:YES,3'site:NO)  
/\*tag= ag  
/number= 5  
FT intron 101001..101181  
/\*tag= ah  
/number= 5  
FT exon 101182..101283  
/\*tag= ai  
/number= 6  
XX WO200262946-A2.  
XX Best Local Similarity 51.1%; Score 30.2; DB 9; Length 110000;  
XX Matches 71; Conservative 0; Mismatches 68; Indels 0; Gaps 0;  
XX  
XX 10-DEC-2001; 2001WO-US048437.  
XX PF  
XX 08-DEC-2000; 2000US-0254362P.  
XX PR 20-FEB-2001; 2001US-0270057P.  
XX XX  
XX (UYDU-) UNIV DUKE.  
XX PA  
XX Tedder TF, Liang YH;  
PI

XX  
DR WPI; 2002-557530/70.  
DR P-PSDB; ABP65025, ABP65029, ABP65045.  
XX  
PT New membrane spanning 4-domain A (MS4A) genes and polypeptides, useful  
PT for generating animal models of atopic disorders, for drug screening, or  
PT for treating (non-) Hodgkin's lymphoma, or allergenic or atopic disorders  
PT in e.g. humans.  
XX  
PS Claim 18; Page 328-385; 450pp; English.  
XX  
CC The invention relates to novel membrane spanning 4-domain A (MS4A)  
CC nucleic acid and polypeptide molecules, comprising human and mouse MS4A.  
CC The polypeptides of the invention have a use in gene therapy. The MS4A  
CC activity. The polynucleotides may have a use in gene therapy. The MS4A  
CC nucleic acids and polypeptides are useful for generating animal (e.g.  
CC mouse) models of atopic disorders, or for drug discovery screens. These  
CC are also useful for treating (non-)Hodgkin's lymphoma, allergenic  
CC diseases, atopic disorders or other MS4A-related conditions. The present  
CC sequence represents a human MS4A genomic region, encoding the MS4A7,  
CC MS4A5 and MS4A12 proteins  
XX  
SQ Sequence 104644 BP; 33140 A; 20880 C; 20558 G; 29988 T; 0 U; 78 Other;  
XX  
Query Match 21.9%; Score 30.4; DB 6; Length 104644;  
Best Local Similarity 53.3%; Pred. No. 29;  
Matches 64; Conservative 0; Mismatches 56; Indels 0; Gaps 0;  
QY 16 GAACCTAAATATGCTGCCTCACCCCTCTTTTCTTCAGAAAGAGGGTGACTATTGTCTG 75  
DB 88420 GAACCCAGATTATTCATGGCTAGTCTATAGTTATTAGGACTCAGAATACATTTTACTG 88361  
QY 76 GTTTATTAACTGTTTATCCCAAGCACCATTAATCAACGCTAGACTGTCTTATTGTAA 135  
DB 88360 GGTCAAGTCTGTTTATATAAAGGAATTAAGACAGAGCCAGCCAGTCTGATTCTTTA 88301  
RESULT 18  
ADB12064\_03/c  
Continuation (4 of 18) of ADB12064 from base 300001 (Alloicoccus otitis entire genome se  
WP Sequence split into 18 fragments LOCUS ADB12064 Accession Adb12064  
WP Fragment Name Begin End  
WP ADB12064\_00 1 110000  
WP ADB12064\_01 100001 210000  
WP ADB12064\_02 200001 310000  
WP ADB12064\_03 300001 410000  
WP ADB12064\_04 400001 510000  
WP ADB12064\_05 500001 610000  
WP ADB12064\_06 600001 710000  
WP ADB12064\_07 700001 810000  
WP ADB12064\_08 800001 910000  
WP ADB12064\_09 900001 1010000  
WP ADB12064\_10 1000001 1110000  
WP ADB12064\_11 1100001 1210000  
WP ADB12064\_12 1200001 1310000  
WP ADB12064\_13 1300001 1410000  
WP ADB12064\_14 1400001 1510000  
WP ADB12064\_15 1500001 1610000  
WP ADB12064\_16 1600001 1710000  
WP ADB12064\_17 1700001 1754382  
Query Match 21.7%; Score 30.2; DB 9; Length 110000;  
XX Best Local Similarity 51.1%; Pred. No. 34;  
XX Matches 71; Conservative 0; Mismatches 68; Indels 0; Gaps 0;  
XX  
QY 1 GTGACTCTGGTCGACGAACTTAATAATGCTGCTGCTACCTCTTTTCTTCAGAAAGAGG 60  
DB 57300 GTAATTTTCTCGAACAACTTAAGTTATTCGAGAATGATCATCTATTTTCTCAAACTGA 57241  
QY 61 GTGACTATTGCTGTTTATTAACTGTTTATCCCAAGCACCATTAATCAACCTAGAC 120  
DB 57240 ACACATAATTTTAAATATACATATGTTTCGATTGCTTCCCAACTATTCCTCCCAAACTACAA 57181

Qy 121 TGTCTTATGTTTACACA 139  
 Db 57180 CCAGCTAACTGTTTAAACA 57162

## RESULT 19

ADJ38283  
 ID ADJ38283 standard; cDNA; 622 BP.

XX AC ADJ38283;  
 XX 06-MAY-2004 (first entry)

XX DE Plastid division-related Arc6 orthologue cDNA 64.

XX KW prokaryotic type; plastid division; Ftn2; ARC6; ARC5; Fzo; plant cell;  
 KW agronomic; horticultural; crop plant; ornamental plant; woody plant;  
 KW herbicide target; gene; ss.

XX OS Prunus persica.  
 XX PN WO2004001003-A2.

XX XX 31-DEC-2003.

XX PF 20-JUN-2003; 2003WO-US019536.

XX XX 20-JUN-2002; 2002US-0390140P.

XX PR 09-AUG-2002; 2002US-0402242P.

XX PR 20-JUN-2003; 2003US-00600070.

XX XX (UNMS ) UNIV MICHIGAN STATE.

XX PI Oosteryoung KW, Vitha S, Koksharova OA, Gao H;  
 XX WPI; 2004-082486/08.

XX XX New isolated Ftn2, ARC5 and/or Fzo-like nucleic acid sequences, useful  
 PT for further characterizing plastid division in plant cells, and in  
 PT varying agronomic and horticultural characteristics of economically  
 PT important plants.  
 XX XX Disclosure; Fig 26; 287pp; English.

XX XX This invention relates to novel prokaryotic type or plastid division and  
 CC related genes and proteins. In particular, the invention relates to novel  
 CC Ftn2 (ARC6), ARC5 and Fzo-like genes and polypeptides. The methods and  
 CC compositions of the present invention are useful for further  
 CC characterizing plastid division in plant cells, in order to vary  
 CC agronomic and horticultural characteristics of economically important  
 CC plants, such as crop, ornamental and woody plants. They can also be used  
 CC as herbicide targets. The present sequence is a cDNA sequence which is  
 CC related to the invention.

XX SQ Sequence 622 BP; 168 A; 125 C; 147 G; 181 T; 0 U; 1 Other;

Query Match 21.6%; Score 30; DB 12; Length 622;  
 Best Local Similarity 72.2%; Pred. No. 9.1;  
 Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 23 AATAAGCTGCTACCCCTCTTTCTTCAGAAAGGGTGACTATTGTCGG 76  
 Db 262 ATTACTTCCTATATCATGCTCTCTCTCAGAAAGATGGTGAGTATTAAAGTGG 315

## RESULT 20

AAK74790/C  
 ID AAK74790 standard; DNA; 10711 BP.

XX AC AAK74790;  
 XX 07-NOV-2001 (first entry)

XX DT 07-NOV-2001 (first entry)

XX XX

DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:29602.  
 XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
 KW cytostatic; gene therapy; vaccine; metastasis; ds.  
 XX OS Homo sapiens.

XX PN WO200157182-A2.

XX PD 09-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US001354.

XX XX 31-JAN-2000; 2000US-0179065P.

XX PR 04-FEB-2000; 2000US-0180628P.

XX PR 24-FEB-2000; 2000US-0184664P.

XX PR 02-MAR-2000; 2000US-0186350P.

XX PR 16-MAR-2000; 2000US-0189874P.

XX PR 17-MAR-2000; 2000US-0190076P.

XX PR 18-APR-2000; 2000US-0198123P.

XX PR 19-MAY-2000; 2000US-0205515P.

XX PR 07-JUN-2000; 2000US-0209467P.

XX PR 28-JUN-2000; 2000US-0214886P.

XX PR 30-JUN-2000; 2000US-0215135P.

XX PR 07-JUL-2000; 2000US-0216647P.

XX PR 07-JUL-2000; 2000US-0216880P.

XX PR 11-JUL-2000; 2000US-0217487P.

XX PR 14-JUL-2000; 2000US-0217496P.

XX PR 26-JUL-2000; 2000US-0220963P.

XX PR 26-JUL-2000; 2000US-0220964P.

XX PR 14-AUG-2000; 2000US-0224518P.

XX PR 14-AUG-2000; 2000US-0224519P.

XX PR 14-AUG-2000; 2000US-0225213P.

XX PR 14-AUG-2000; 2000US-0225214P.

XX PR 14-AUG-2000; 2000US-0225266P.

XX PR 14-AUG-2000; 2000US-0225267P.

XX PR 14-AUG-2000; 2000US-0225268P.

XX PR 14-AUG-2000; 2000US-0225270P.

XX PR 14-AUG-2000; 2000US-0225447P.

XX PR 14-AUG-2000; 2000US-0225757P.

XX PR 14-AUG-2000; 2000US-0225758P.

XX PR 14-AUG-2000; 2000US-0225759P.

XX PR 18-AUG-2000; 2000US-0226279P.

XX PR 22-AUG-2000; 2000US-0226681P.

XX PR 22-AUG-2000; 2000US-0226868P.

XX PR 22-AUG-2000; 2000US-0227182P.

XX PR 30-AUG-2000; 2000US-0228924P.

XX PR 01-SEP-2000; 2000US-0229287P.

XX PR 01-SEP-2000; 2000US-0229343P.

XX PR 01-SEP-2000; 2000US-0229344P.

XX PR 01-SEP-2000; 2000US-0229345P.

XX PR 05-SEP-2000; 2000US-0229509P.

XX PR 05-SEP-2000; 2000US-0229513P.

XX PR 06-SEP-2000; 2000US-0230437P.

XX PR 06-SEP-2000; 2000US-0230438P.

XX PR 08-SEP-2000; 2000US-0231242P.

XX PR 08-SEP-2000; 2000US-0231243P.

XX PR 08-SEP-2000; 2000US-0231244P.

XX PR 08-SEP-2000; 2000US-0231413P.

XX PR 08-SEP-2000; 2000US-0231414P.

XX PR 08-SEP-2000; 2000US-0232080P.

XX PR 08-SEP-2000; 2000US-0232081P.

XX PR 12-SEP-2000; 2000US-0231968P.

XX PR 14-SEP-2000; 2000US-0232397P.

XX PR 14-SEP-2000; 2000US-0232398P.

XX PR 14-SEP-2000; 2000US-0232399P.

XX PR 14-SEP-2000; 2000US-0232400P.

XX PR 14-SEP-2000; 2000US-0232401P.

XX PR 14-SEP-2000; 2000US-0233063P.

XX PR 14-SEP-2000; 2000US-0233064P.

XX PR 14-SEP-2000; 2000US-0233065P.



```
PR 15-JAN-1999; 99US-00232149.
PR 15-JAN-1999; 99US-00232880.
PR 09-APR-1999; 99US-00288946.
XX
XX (CORI-) CORIXA CORP.
XX
XX Dillon DC, Harlocker SL, Yuqiu J, Xu J, Mitcham JL;
XX
XX WPI; 2000-171268/15.
XX
XX New polypeptide useful for treating and diagnosing prostate cancer
PT comprises an immunogenic portion of prostate tumor protein.
XX
XX Claim 1; Page 194; 263pp; English.
XX
XX The present invention describes isolated polypeptides, comprising an
CC immunogenic portion of a prostate tumor protein (PTP). The polypeptides
CC and polynucleotides encoding them have cytostatic activity and can be
CC used in vaccines and in gene therapy. The polypeptides and
CC polynucleotides encoding them, antigen presenting cells which express the
CC polypeptides, antibodies against the polypeptides and vaccines comprising
CC them can be used for inhibiting the development of prostate cancer in a
CC patient. The polypeptides can be used to generate antibodies or anti-
CC idiotype antibodies for passive immuno therapy. A portion of the
CC polynucleotides encoding the polypeptides can be used as a probe or to
CC modulate the expression of the polypeptides. AAH06241 to AAH06691 and
CC AAH92000 to AAH92020 represent sequences used in the exemplification of
CC the present invention
XX
XX Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;
XX
XX Query Match 21.4%; Score 29.8; DB 3; Length 301;
XX Best Local Similarity 56.7%; Pred. No. 8.6;
XX Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
XX
XX QY 43 CTTTCTTCAGAAAGGGTGACTATTCTCTGTTTATTACTGTTTATCCCAAGCA 102
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTGTGTAGTCACTTCTGATTCTGCAATC 89
XX
XX QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
XX ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 90 AATCAATCAATGGCTAGAGCACTGACTGTTTAAACACA 126
XX
XX RESULT 22
XX AAH93642
XX ID AAH93642 standard; cDNA; 301 BP.
XX
XX AC AAH93642;
XX
XX DT 04-OCT-2001 (first entry)
XX
XX DE Human prostate-specific cDNA sequence P808.
XX
XX KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
XX cytostatic; gene therapy; metastasis; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200151633-A2.
XX
XX PD 19-JUL-2001.
XX
XX PF 16-JAN-2001; 2001WO-US001574.
XX
XX PR 14-JAN-2000; 2000US-00483672.
XX
XX (CORI-) CORIXA CORP.
XX
XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
XX Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
XX Wang A, Meagher MJ;
XX
```

---

```
DR WPI; 2001-425873/45.
XX
XX New polynucleotide encoding a prostate-specific protein, for diagnosing,
PT monitoring and treating prostate cancer in a patient and for use in
PT vaccines.
XX
XX Claim 1; Page 320; 543pp; English.
XX
XX The present invention describes polynucleotide sequences (I) which encode
CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
CC and can be used in vaccine production and gene therapy. (I), (II),
CC antibodies to (II), fusion proteins comprising (II), and isolated T cells
CC prepared using (I) or (II) are used treat cancer in a patient. (I) and
CC the antibodies are also used in the detection of cancer in a patient. The
CC cancer that is diagnosed or treated is particularly prostate cancer. (I)
CC and (II) can be used in vaccines. The antibodies or (I) and (II) can also
CC be used to improve diagnostic and therapeutic methods for prostate
CC cancer. They can indicate the level of metastasis as well as the prostate
CC volume. AAH93357 to AAH93944 and AAH0115 to AAH01318 represent
CC polynucleotide and amino acid sequences used in the exemplification of
CC the present invention
XX
XX Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;
XX
XX Query Match 21.4%; Score 29.8; DB 4; Length 301;
XX Best Local Similarity 56.7%; Pred. No. 8.6;
XX Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
XX
XX QY 43 CTTTCTTCAGAAAGGGTGACTATTCTCTGTTTATTACTGTTTATCCCAAGCA 102
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTGTGTAGTCACTTCTGATTCTGCAATC 89
XX
XX QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
XX ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 90 AATCAATCAATGGCTAGAGCACTGACTGTTTAAACACA 126
XX
XX RESULT 23
XX AAS63734
XX ID AAS63734 standard; cDNA; 301 BP.
XX
XX AC AAS63734;
XX
XX DT 29-JAN-2002 (first entry)
XX
XX DE Human prostate cDNA sequence #286.
XX
XX KW Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.
XX
XX OS Homo sapiens.
XX
XX PN WO200173032-A2.
XX
XX PD 04-OCT-2001.
XX
XX PF 27-MAR-2001; 2001WO-US009919.
XX
XX PR 27-MAR-2000; 2000US-00536857.
XX PR 09-MAY-2000; 2000US-00568100.
XX PR 12-MAY-2000; 2000US-00570737.
XX PR 13-JUN-2000; 2000US-00593793.
XX PR 27-JUN-2000; 2000US-00605783.
XX PR 09-AUG-2000; 2000US-00636215.
XX PR 29-AUG-2000; 2000US-00651236.
XX PR 06-SEP-2000; 2000US-00657279.
XX PR 02-OCT-2000; 2000US-00679426.
XX PR 10-OCT-2000; 2000US-00685166.
XX PR 09-NOV-2000; 2000US-00709729.
XX
XX (CORI-) CORIXA CORP.
XX
XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
XX
```





CC region on chromosome 22q11.2 known as the Cat Eye Syndrome region.  
CC Prostate specific antigen (PSA) P501S was located on chromosome 1.  
CC AAH84671 to AAH85143 and AAG99000 to AAG99077 represent polynucleotide  
CC and polypeptide sequences used in the exemplification of the present  
XX invention  
SQ Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;  
  
Query Match 21.4%; Score 29.8; DB 4; Length 301;  
Best Local Similarity 56.7%; Pred. No. 8.6;  
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
  
QY 43 CTTTCTTCAGAAAGGGTGACTATTCTCTGTTTATTACTGTTTATCCCAAGCA 102  
DB 30 CTGTTCTCACTGAAAAGTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89  
  
QY 103 CCATAATCAACGGTAGACTGTTCTTATTGTTAACACA 139  
DB 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAACACA 126  
  
RESULT 26  
ACA59543  
ID ACA59543 standard; cDNA; 301 BP.  
XX ACA59543;  
XX  
XX 10-JUN-2003 (first entry)  
XX  
DE Prostate cancer therapy associated cDNA #286.  
XX  
KW Prostate cancer; vaccine; gene therapy; cytostatic; fusion protein;  
KW immunogen; cancer; prostate specific antigen; PSA;  
KW prostatic acid phosphatase; PAP; prostate specific membrane antigen;  
KW PSMA; gene; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX US2002192763-A1.  
XX  
XX 19-DEC-2002.  
XX  
XX 29-JUN-2001; 2001US-00895793.  
XX  
XX 04-OCT-1999; 99US-0157455P.  
PR 04-OCT-2000; 2000US-00679272.  
PR 28-MAR-2001; 2001US-00822827.  
XX  
XX (XUJ/) XU J.  
PA (DILL/) DILLON D C.  
PA (MITC/) MITCHAM J L.  
PA (HARL/) HARLOCKER S L.  
PA (JIAN/) JIANG Y.  
PA (KALO/) KALOS M D.  
PA (FANG/) FANGER G R.  
PA (RETT/) RETTER M W.  
PA (STOL/) STOLK J A.  
PA (DAYC/) DAY C H.  
PA (VEDV/) VEDWICK T S.  
PA (CARL/) CARTER D.  
PA (LISX/) LI S X.  
PA (WANG/) WANG A.  
PA (SKET/) SKEIKY Y A W.  
PA (HEPL/) HEPLER W T.  
PA (HEND/) HENDERSON R A.  
PA (HURA/) HURAL J.  
PA (MCNE/) MCNEILL P D.  
PA (HOUG/) HOUGHTON R L.  
PA (DBAS/) Y DE BASSOLS C V.  
PA (FOYT/) FOY T M.  
XX  
XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;  
PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedwick TS, Carter D;

PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA, Hural J;  
PI McNeill PD, Houghton RL, Y De BassolsCV, Foy TM;  
XX WPI; 2001-245062/25.  
XX  
XX Prostate specific protein and its encoding polynucleotide, useful for the  
XX treatment and diagnosis of prostate cancer.  
XX  
XX Example 5; SEQ ID NO 293; 85pp; English.  
XX  
XX The invention describes a fusion protein comprising at least one amino  
XX acid sequence of immunogenic portions of any of the 3 sequences not  
XX defined in the specification, or sequences having at least 70 or 90 %  
XX sequence identity to any one of the 35 sequences defined in the USPTO web  
XX site, which is encoded by any of the 4 nucleotide sequences not defined  
XX in the specification. The fusion protein, composition and methods are  
XX useful for diagnosing, preventing and/or treating cancer, particularly  
XX prostate cancer. The proteins are useful as markers to indicate the  
XX presence or absence of cancer. This sequence represents a prostate cancer  
XX therapy associated cDNA. Note: The sequence data for this patent did not  
XX form part of the printed specification, but was obtained in electronic  
XX format directly from the US patent office at  
XX seqdata.uspto.gov/sequence.html?DocID=US20020192763  
XX  
SQ Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;  
  
Query Match 21.4%; Score 29.8; DB 5; Length 301;  
Best Local Similarity 56.7%; Pred. No. 8.6;  
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
  
QY 43 CTTTCTTCAGAAAGGGTGACTATTCTCTGTTTATTACTGTTTATCCCAAGCA 102  
DB 30 CTGTTCTCACTGAAAAGTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89  
  
QY 103 CCATAATCAACGGTAGACTGTTCTTATTGTTAACACA 139  
DB 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAACACA 126  
  
RESULT 27  
ABL95106  
ID ABL95106 standard; cDNA; 301 BP.  
XX ABL95106;  
XX  
XX 19-JUL-2002 (first entry)  
XX  
XX Human P8D8 cDNA sequence SEQ ID NO 293.  
XX  
XX Human; cancer; prostate cancer; vaccine; cytostatic; immunostimulant;  
XX Gene therapy; gene; ss.  
XX Homo sapiens.  
XX  
XX US2002022248-A1.  
XX  
XX 21-FEB-2002.  
XX  
XX 12-JAN-2001; 2001US-00759143.  
XX  
XX 25-FEB-1997; 97US-00806099.  
PR 01-AUG-1997; 97US-00904804.  
PR 10-FEB-1998; 98US-00020956.  
PR 25-FEB-1998; 98US-00030607.  
PR 14-JUL-1998; 98US-00115453.  
PR 23-SEP-1998; 98US-00159812.  
PR 15-JAN-1999; 99US-00232149.  
PR 09-APR-1999; 99US-00288946.  
PR 13-JUL-1999; 99US-00352616.  
PR 12-NOV-1999; 99US-00439313.  
PR 18-NOV-1999; 99US-00443686.  
PR 14-JAN-2000; 2000US-00483672.  
PR 27-MAR-2000; 2000US-00536857.



XX 25-FEB-1997; 97US-00806099.  
PR 01-AUG-1997; 97US-00904804.  
PR 09-FEB-1998; 98US-00020956.  
PR 25-FEB-1998; 98US-00030607.  
PR 14-JUL-1998; 98US-00115453.  
PR 23-SEP-1998; 98US-00159812.  
PR 15-JAN-1999; 99US-00232149.  
PR 09-APR-1999; 99US-00288946.  
PR 13-JUL-1999; 99US-00352616.  
PR 12-NOV-1999; 99US-00439313.  
PR 18-NOV-1999; 99US-00443686.  
PR 14-JAN-2000; 2000US-00483672.  
PR 27-MAR-2000; 2000US-00536857.  
PR 09-MAY-2000; 2000US-00568100.  
PR 12-MAY-2000; 2000US-00570737.  
PR 13-JUN-2000; 2000US-00593793.  
PR 27-JUN-2000; 2000US-00605783.  
PR 09-AUG-2000; 2000US-00638215.  
PR 29-AUG-2000; 2000US-00651236.  
PR 06-SEP-2000; 2000US-00657279.  
PR 02-OCT-2000; 2000US-00679426.  
PR 10-OCT-2000; 2000US-00685166.  
PR 09-NOV-2000; 2000US-00709729.  
PR 12-JAN-2001; 2001US-00759143.  
PR 09-FEB-2001; 2001US-00780669.  
PR 09-MAY-2001; 2001US-00852911.  
PR 29-JUN-2001; 2001US-00895814.  
PR 10-DEC-2001; 2001US-00012896.  
PR 09-MAY-2002; 2002US-00144678.  
XX (CORI-) CORIXA CORP.  
PA  
XX Xu J, Stolk JA, Kalos MD;  
PI  
XX WPI; 2003-756193/71.  
DR  
XX New isolated polypeptide for use in a vaccine for stimulating an immune  
PT response, or for treating or diagnosis cancer, preferably prostate  
PT cancer.  
XX  
PS Example 5; Page; 101pp; English.  
XX  
XX The invention relates to an isolated polypeptide comprising no more than  
CC 11-542 amino acids of ADB13563 comprising a sequence ADB1487. The  
CC peptides comprise a fragment ADB13563 of that contain naturally processed  
CC T-cell epitopes for 3 class I major histocompatibility complex (MHC)  
CC alleles. ADB13563 is a polypeptide encoded by a human prostate specific  
CC cDNA, one of 648 disclosed as new. Also included are nucleic acids  
CC encoding the proteins and peptides, expression vectors, a host cell  
CC transformed with the vector, an isolated antibody (or antigen binding  
CC fragment) that specifically binds to the protein or peptide, detecting  
CC the presence of a cancer in a patient (comprising contacting a patient  
CC sample with a binding agent that binds to the peptides or a polypeptide  
CC appearing as ADB13558, detecting the amount of polypeptide that binds to  
CC the agent and comparing the amount of polypeptide to a predetermined cut-  
CC off value to determine the presence of cancer), a fusion protein  
CC comprising the peptides or proteins, stimulating or expanding T cells  
CC specific for a tumour protein comprising contacting T cells with the  
CC peptides or the isolated T cell population, treating prostate cancer in a  
CC patient comprising administering a composition comprising the peptides,  
CC nucleic acids, antibodies or compounds, determining the presence of a  
CC cancer in a patient and treating prostate cancer in a patient comprising  
CC incubating cluster of differentiation (CD4+) and/or CD8+ T cells isolated  
CC from a patient with the peptides or antigen presenting cells that express  
CC (the peptides so that the T cells proliferate, and administering the  
CC proliferated T cells to the patient. The peptides (or an oligonucleotide  
CC that hybridises to nucleic acid encoding them), is used to detect the  
CC presence of cancer in a patient. The peptides, nucleic acids encoding, or  
CC antigen-presenting cells expressing the nucleic acid, are used to  
CC stimulate or expand T cells specific for a tumour protein. The peptides,  
CC nucleic acids, antibodies, fusion proteins, T cell populations or antigen  
CC presenting cells are used to stimulate an immune response or treat

CC prostate cancer in a patient. The present sequence is one of the  
CC disclosed human prostate specific cDNAs. Note: Except where otherwise  
CC indicated, the sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from USPTO at seqdata.uspto.gov/sequence.html?DocID=20030185830.  
XX  
XX Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;  
SQ  
Query Match 21.4%; Score 29.8; DB 10; Length 301;  
Best Local Similarity 56.7%; Pred. No. 8.6;  
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 43 CTTTCTTCAGAAAGGGTGACTATTCTGCTTTATTAAGTGTATCCCAAGCA 102  
DB 30 CTGTTCTCACTGAAAAGTCTGCTAATGCTGTGTAGTCACTCTGATTCTGCAATC 89  
QY 103 CCATTAATCAACGCTAGACTGTCTTATTCTTTAAACACA 139  
DB 90 AATCAATCAATGGCTAGAGCACTGACTGTTTAAACACA 126  
RESULT 30  
ADG26159  
ID ADG26159 standard; cDNA; 301 BP.  
XX  
AC ADG26159;  
XX  
DT 26-FEB-2004 (first entry)  
XX  
DE Human prostate-specific cDNA #286.  
XX  
KW Human; prostate-specific polypeptide; gene; ss; prostate cancer;  
KW cytostatic.  
XX  
OS Homo sapiens.  
XX  
PN US2003157089-A1.  
PD 21-AUG-2003.  
XX  
PF 09-MAY-2002; 2002US-00144678.  
XX  
PR 25-FEB-1997; 97US-00806099.  
PR 01-AUG-1997; 97US-00904804.  
PR 09-FEB-1998; 98US-00020956.  
PR 25-FEB-1998; 98US-00030607.  
PR 14-JUL-1998; 98US-00115453.  
PR 23-SEP-1998; 98US-00159812.  
PR 15-JAN-1999; 99US-00232149.  
PR 09-APR-1999; 99US-00288946.  
PR 13-JUL-1999; 99US-00352616.  
PR 12-NOV-1999; 99US-00439313.  
PR 18-NOV-1999; 99US-00443686.  
PR 14-JAN-2000; 2000US-00483672.  
PR 27-MAR-2000; 2000US-00536857.  
PR 09-MAY-2000; 2000US-00568100.  
PR 12-MAY-2000; 2000US-00570737.  
PR 13-JUN-2000; 2000US-00593793.  
PR 27-JUN-2000; 2000US-00605783.  
PR 29-AUG-2000; 2000US-00638215.  
PR 06-SEP-2000; 2000US-00657279.  
PR 02-OCT-2000; 2000US-00679426.  
PR 10-OCT-2000; 2000US-00685166.  
PR 09-NOV-2000; 2000US-00709729.  
PR 12-JAN-2001; 2001US-00759143.  
PR 09-FEB-2001; 2001US-00780669.  
PR 09-MAY-2001; 2001US-00852911.  
PR 29-JUN-2001; 2001US-00895814.  
PR 10-DEC-2001; 2001US-00012896.  
XX (CORI-) CORIXA CORP.  
PA  
XX

Pt	Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Henderson RA;
Pt	Kalos MD, Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS;
Pt	Carter D, Li SX, Wang A, Skeiky YAW, Hepler WT, Hural J;
Pt	McNeill PD, Houghton RL, Vinals Y De BassolsC, Foy TM, Watanabe Y;
Pt	Meghar M, Deng T;
XX	
XX	WPI; 2003-777973/73.
DR	
XX	
Pt	New polynucleotides encoding prostate specific polypeptides isolated from
Pt	a human prostate tumor cDNA library are useful to diagnose and treat
Pt	cancer particularly prostate cancer.
Pt	
PS	Example 5; SEQ ID NO 293; 99pp; English.
XX	
CC	The invention relates to human prostate-specific polypeptides and the
CC	polynucleotides encoding them. The invention also relates to an isolated
CC	antibody or its antigen-binding fragment that specifically binds a
CC	polypeptide of the invention, a method of detecting cancer in a patient
CC	comprising contacting a biological sample of the patient with an agent
CC	that binds a prostate-specific polypeptide and comparing the amount of
CC	bound polypeptide compared to a predetermined cut-off value and a fusion
CC	protein comprising a prostate-specific polypeptide. The sequences of the
CC	invention are used to diagnose and treat cancer, particularly prostate
CC	cancer. This sequence represents cDNA encoding a human prostate-specific
CC	polypeptide of the invention. Note: The sequence data for this patent did
CC	not form part of the printed specification but was obtained in electronic
CC	format directly from USPTO at seqdata.uspto.gov/sequence.html.
XX	
SQ	Sequence 301 BP; 83 A; 73 C; 60 G; 85 T; 0 U; 0 Other;
	Query Match            21.4%; Score 29.8; DB 10; Length 301;
	Best Local Similarity 56.7%; Pred. No. 8.6;
	Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0
Qy	43 CTTTTCTTCAGAAAGGGTGACATATTGTCGTGTTTATTAACTGTTTATCCCCAAGCA 102
Db	30 CTGTTCTCACTGAAAGTCGGCTAATGCCTCTGTGTAGTCACCTCTCATTCGACATC 89
Qy	103 CCATAATCAACGGCTAGACTGTTCTTTATGTTTAACACA 139
Db	90 AATCAATCAATGGCGCTAGAGACATCACTGTTTAACACA 126

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 22, 2004, 03:01:57 ; Search time 266 Seconds

(without alignments)

2884.949 Million cell updates/sec

Title: US-10-070-882A-2

Perfect score: 139

Sequence: 1 gtagcttggtgcagcaact.....ctgtttattgttaacaca 139

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 4093002 seqs, 2760418825 residues

Total number of hits satisfying chosen parameters: 8186004

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA.\*

1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	37.2	26.8	1385	16	US-10-282-122A-37352
C 2	31	22.3	772	17	US-10-363-829-150
C 3	31	22.3	810	17	US-10-363-829-237
C 4	30.6	22.0	2999	9	US-09-738-626-2992
C 5	30.6	22.0	3309400	9	US-09-738-626-2992
C 6	30.4	21.9	31241	10	US-09-960-870-13
C 7	30.4	21.9	31241	10	US-09-960-858-13
C 8	30.4	21.9	31241	16	US-10-251-668-13
C 9	30.4	21.9	104644	17	US-10-433-287-79
C 10	30.4	21.9	109559	17	US-10-322-281-137
C 11	30.2	21.7	138363	17	US-10-367-094-117
C 12	30	21.6	458	16	US-10-424-599-105245

13	21.6	30	622	17	US-10-600-070-201	Sequence 201, App
14	21.4	29.8	301	9	US-09-759-143-293	Sequence 293, App
15	29.8	21.4	301	9	US-09-780-669-293	Sequence 293, App
16	29.8	21.4	301	9	US-09-822-827-293	Sequence 293, App
17	29.8	21.4	301	9	US-09-232-880-293	Sequence 293, App
18	29.8	21.4	301	9	US-09-895-793-293	Sequence 293, App
19	29.8	21.4	301	9	US-09-895-814-293	Sequence 293, App
20	29.8	21.4	301	13	US-10-012-896-293	Sequence 293, App
21	29.8	21.4	301	14	US-10-010-940-293	Sequence 293, App
22	29.8	21.4	301	15	US-10-144-678A-293	Sequence 293, App
23	29.8	21.4	301	15	US-10-294-025-293	Sequence 293, App
24	29.8	21.4	434	15	US-10-102-524-307	Sequence 307, App
25	29.8	21.4	434	15	US-10-102-524-540	Sequence 540, App
26	29.8	21.4	444	13	US-10-027-632-81146	Sequence 81146, A
27	29.8	21.4	444	15	US-10-027-632-81146	Sequence 81146, A
28	29.8	21.4	463	13	US-10-027-632-109769	Sequence 109769, App
29	29.8	21.4	463	15	US-10-027-632-109769	Sequence 109769, App
30	29.8	21.4	492	9	US-09-954-456-46	Sequence 46, Appl
31	29.8	21.4	492	9	US-09-954-456-962	Sequence 962, App
32	29.8	21.4	617	13	US-10-027-632-229999	Sequence 229999, App
33	29.8	21.4	617	15	US-10-027-632-229999	Sequence 229999, App
34	29.8	21.4	1448	16	US-10-131-487A-46	Sequence 46, Appl
35	29.8	21.4	2962	15	US-10-104-047-1343	Sequence 1343, App
36	29.8	21.4	3042	15	US-10-205-823-155	Sequence 155, App
37	29.8	21.4	3042	15	US-10-177-293-183	Sequence 183, App
38	29.8	21.4	3042	15	US-10-210-120-114	Sequence 114, App
39	29.8	21.4	3042	15	US-10-341-434-120	Sequence 120, App
40	29.8	21.4	3042	15	US-10-172-118-1654	Sequence 1654, App
41	29.8	21.4	3042	16	US-10-342-887-1654	Sequence 1654, App
42	29.8	21.4	3154	17	US-10-115-635-360	Sequence 360, App
43	29.8	21.4	3174	16	US-10-351-334-86	Sequence 86, Appl
44	29.6	21.3	611	13	US-10-027-632-197263	Sequence 197263, App
45	29.6	21.3	611	15	US-10-027-632-197263	Sequence 197263, App
C 46	29.6	21.3	483728	18	US-10-699-156-2	Sequence 2, Appl1
47	29.4	21.2	567	13	US-10-027-632-51360	Sequence 51360, A
48	29.4	21.2	567	15	US-10-027-632-51360	Sequence 51360, A
49	29.4	21.2	592	13	US-10-027-632-61820	Sequence 61820, A
50	29.4	21.2	592	15	US-10-027-632-61820	Sequence 61820, A
C 51	29.4	21.2	32249	10	US-09-764-891-7477	Sequence 7477, App
C 52	29.4	21.2	43602	15	US-10-085-959-18	Sequence 18, Appl
C 53	29.2	21.0	16593	16	US-10-158-844-52	Sequence 52, Appl
C 54	29.2	21.0	16593	16	US-10-027-632-236290	Sequence 236290, App
55	29.9	20.9	510	13	US-10-027-632-236290	Sequence 236290, App
56	29.9	20.9	510	15	US-10-027-632-236290	Sequence 236290, App
57	29.9	20.9	607	13	US-10-027-632-13067	Sequence 13067, A
58	29.9	20.9	607	15	US-10-027-632-13067	Sequence 13067, A
C 59	29.9	20.9	740	13	US-10-027-632-146426	Sequence 146426, App
C 60	29.9	20.9	740	15	US-10-027-632-146426	Sequence 146426, App
C 61	28.8	20.7	2347	10	US-09-880-573-113	Sequence 113, App
C 62	28.6	20.6	481	9	US-09-783-590-1098	Sequence 1098, App
C 63	28.6	20.6	485	9	US-09-864-761-4049	Sequence 4049, App
C 64	28.6	20.6	500	13	US-10-027-632-80079	Sequence 80079, A
C 65	28.6	20.6	500	13	US-10-027-632-301423	Sequence 301423, App
C 66	28.6	20.6	500	15	US-10-027-632-80079	Sequence 80079, A
C 67	28.6	20.6	500	15	US-10-027-632-301423	Sequence 301423, App
C 68	28.6	20.6	553	13	US-10-027-632-303134	Sequence 303134, App
C 69	28.6	20.6	553	15	US-10-027-632-303134	Sequence 303134, App
C 70	28.6	20.6	573	13	US-10-027-632-67583	Sequence 67583, A
C 71	28.6	20.6	573	15	US-10-027-632-67583	Sequence 67583, A
C 72	28.6	20.6	2676	9	US-09-974-592-11	Sequence 11, Appl
C 73	28.6	20.6	16397	8	US-08-781-986A-205	Sequence 205, App
C 74	28.6	20.6	16397	16	US-10-329-624-205	Sequence 1561, App
C 75	28.6	20.6	84926	13	US-10-087-192-1561	Sequence 180415, App
C 76	28.4	20.4	585	13	US-10-027-632-180415	Sequence 180415, App
C 77	28.4	20.4	585	15	US-10-027-632-180415	Sequence 236049, App
C 78	28.4	20.4	615	13	US-10-027-632-236049	Sequence 236049, App
C 79	28.4	20.4	615	15	US-10-027-632-236049	Sequence 236049, App
C 80	28.4	20.4	659	13	US-10-027-632-191479	Sequence 191479, App
C 81	28.4	20.4	659	15	US-10-027-632-191479	Sequence 191479, App
C 82	28.4	20.4	1092	15	US-10-138-701-1	Sequence 1, Appl1
C 83	28.4	20.4	1305	13	US-10-027-632-255960	Sequence 255960, App
C 84	28.4	20.4	1305	15	US-10-027-632-255960	Sequence 255960, App
C 85	28.4	20.4	2407	8	US-08-781-986A-391	Sequence 391, App

C 86 28.4 20.4 2407 16 US-10-329-624-391 Sequence 391, App  
C 87 28.4 20.4 3450 15 US-10-369-493-46078 Sequence 46078, A  
C 88 28.4 20.4 5549 8 US-08-781-986A-188 Sequence 188, App  
C 89 28.4 20.4 5549 16 US-10-329-624-188 Sequence 188, App  
C 90 28.4 20.4 80423 17 US-10-367-094-41 Sequence 41, Appl  
C 91 28.2 20.3 475 13 US-10-027-632-195038 Sequence 195038, A  
C 92 28.2 20.3 475 15 US-10-027-632-195038 Sequence 195038, A  
C 93 28.2 20.3 541 16 US-10-424-599-36959 Sequence 36959, A  
C 94 28.2 20.3 879 16 US-10-425-114-9454 Sequence 9454, App  
C 95 28.2 20.3 1288 16 US-10-424-599-2035 Sequence 2035, App  
C 96 28.2 20.3 1547 16 US-10-424-599-36958 Sequence 36958, A  
C 97 28.2 20.3 1688 13 US-10-027-632-248955 Sequence 248955, A  
C 98 28.2 20.3 1688 13 US-10-027-632-248955 Sequence 248955, A  
C 99 28.2 20.3 1688 15 US-10-027-632-248955 Sequence 248955, A  
C 100 28.2 20.3 1688 15 US-10-027-632-248956 Sequence 248956, A

ALIGNMENTS

RESULT 1  
US-10-282-122A-37352  
; Sequence 37352, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 37352  
; LENGTH: 1385  
; TYPE: DNA  
; ORGANISM: Salmonella paratyphi A  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (72)..(72)  
; OTHER INFORMATION: n=g, a, t or c  
; FEATURE:

; NAME/KEY: misc feature  
; LOCATION: (74)..(75)  
; OTHER INFORMATION: n=g, a, t or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (158)..(158)  
; OTHER INFORMATION: n=g, a, t or c  
US-10-282-122A-37352  
Query Match 26.8%; Score 37.2; DB 16; Length 1385;  
Best Local Similarity 92.9%; Pred. No. 0.062;  
Matches 39; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1 GTGACTCTGTCGACGAACTTAATAATGCTGCCTCACCT 42  
DB 1344 GTGACTCTGTCGACGAACTTAATAATGCTGCCTCACCT 1385  
RESULT 2  
US-10-363-829-150/c  
; Sequence 150, Application US/10363829  
; Publication No. US20040142331A1  
; GENERAL INFORMATION:  
; APPLICANT: Jackson, Stuart E.; Lincoln, Stephen E.;  
; APPLICANT: Altus, Christina M.; Dufour, Gerard E.;  
; APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;  
; APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;  
; APPLICANT: Wright, Rachel J.; Gietzen, Darryl;  
; APPLICANT: Liu, Tommy F.; Yap, Pierre E.;  
; APPLICANT: Dahl, Christopher R.; Momiya, Monika G.;  
; APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;  
; APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;  
; APPLICANT: Gerstin, Jr., Edward H.; Peralta, Careyna H.;  
; APPLICANT: David, Marie H.; Panzer, Scott R.;  
; APPLICANT: Flores, Vincent Z.; Daffo, Abel;  
; APPLICANT: Marwaha, Rakesh; Chen, Alice J.;  
; APPLICANT: Chang, Simon C.; Au, Alan P.;  
; APPLICANT: Inman, Rebekah R.  
; TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT  
; FILE REFERENCE: PT-1183 USN  
; CURRENT APPLICATION NUMBER: US/10/363,829  
; CURRENT FILING DATE: 2003-03-05  
; PRIOR APPLICATION NUMBER: PCT/US01/27628  
; PRIOR FILING DATE: 2001-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,751  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,749  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,750  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,747  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,748  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/230,583  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/230,517  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: US 60/230,610  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: US 60/230,597  
; PRIOR FILING DATE: 2000-09-06  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 506  
; SOFTWARE: PERL Program  
; SEQ ID NO 150  
; LENGTH: 772  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: LG:994938.1:2000SEP08  
US-10-363-829-150

Query Match 22.3%; Score 31; DB 17; Length 772;  
Best Local Similarity 57.9%; Pred. No. 5.9;  
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 45 TTCTTTCAGAGAGGGTGAAGTATTTGCTGGTTTATTACTGTTTATCCCAAGCACC 104  
DB 549 TTCCATAAAAAAGCTCCATTTAGTTTATTATACAGTTTGTGTCAAAAGCGCT 490

QY 105 ATAATCAAGCTAGACTGTTCTTTATTGTTAAACACA 139  
DB 489 TTCTGTAATGCTAGAAATCTCTCAGTGTCAACACA 455

RESULT 3  
US-10-363-829-237/c  
; Sequence 237, Application US/10363829  
; Publication No. US20040142331A1  
; GENERAL INFORMATION:  
; APPLICANT: JACKSON, Stuart E.; Lincoln, Stephen E.;  
; APPLICANT: Altus, Christina M.; Dufour, Gerard E.;  
; APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;  
; APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;  
; APPLICANT: Wright, Rachel J.; Gietzen, Darryl;  
; APPLICANT: Liu, Tommy F.; Yap, Pierre E.;  
; APPLICANT: Dahl, Christopher R.; Momiya, Monika G.;  
; APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;  
; APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;  
; APPLICANT: Gerstin, Jr., Edward H.; Peralta, Careyna H.;  
; APPLICANT: David, Marie H.; Panzer, Scott R.;  
; APPLICANT: Flores, Vincent Z.; Dafo, Abel;  
; APPLICANT: Marwaha, Rakesh; Chen, Alice J.;  
; APPLICANT: Chang, Simon C.; Au, Alan P.;  
; APPLICANT: Inman, Rebekah R.

; TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT  
; FILE REFERENCE: PT-1183 USN  
; CURRENT APPLICATION NUMBER: US/10/363,829  
; CURRENT FILING DATE: 2003-03-05  
; PRIOR APPLICATION NUMBER: PCT/US01/27628  
; PRIOR FILING DATE: 2001-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,751  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,749  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,750  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,747  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/229,748  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/230,583  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: US 60/230,517  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: US 60/230,610  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: US 60/230,597  
; PRIOR FILING DATE: 2000-09-06  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 506  
; SOFTWARE: PERL Program  
; SEQ ID NO 237  
; LENGTH: 810  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: LI:814261.1:2000SEP08

US-10-363-829-237  
Query Match 22.3%; Score 31; DB 17; Length 810;  
Best Local Similarity 57.9%; Pred. No. 6.1;  
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 45 TTCTTTCAGAGAGGGTGAAGTATTTGCTGGTTTATTACTGTTTATCCCAAGCACC 104  
DB 549 TTCCATAAAAAAGCTCCATTTAGTTTATTATACAGTTTGTGTCAAAAGCGCT 490

QY 105 ATAATCAAGCTAGACTGTTCTTTATTGTTAAACACA 139  
DB 489 TTCTGTAATGCTAGAAATCTCTCAGTGTCAACACA 455

RESULT 4  
US-09-738-626-2992  
; Sequence 2992, Application US/09738626  
; Publication No. US20020197605A1  
; GENERAL INFORMATION:  
; APPLICANT: NAKAGAWA, SATOSHI  
; APPLICANT: ANDO, SEIKO  
; APPLICANT: HAYASHI, MIKIRO  
; APPLICANT: OCHIAI, KEIKO  
; APPLICANT: YOKOI, HARUHIKO  
; APPLICANT: TATEISHI, NAOKO  
; APPLICANT: SENOH, AKIHIRO  
; APPLICANT: IKEDA, MASATO  
; APPLICANT: OZAKI, AKIO  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-125  
; CURRENT APPLICATION NUMBER: US/09/738,626  
; CURRENT FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: JP 99/377484  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: JP 00/159162  
; PRIOR FILING DATE: 2000-04-07  
; PRIOR APPLICATION NUMBER: JP 00/280988  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 7059  
; SOFTWARE: Patentin ver. 3.0  
; SEQ ID NO 2992  
; LENGTH: 2799  
; TYPE: DNA  
; ORGANISM: Corynebacterium glutamicum

US-09-738-626-2992  
Query Match 22.0%; Score 30.6; DB 9; Length 2799;  
Best Local Similarity 53.8%; Pred. No. 14;  
Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 17 AACTTAAATAGCTGCTCACCCTCTTTCTTTCAGAAAGGGTGACTATTGTCTGG 76  
DB 271 AACGTCATTGATGGCAGCAAGCATGCTTCATGCGAAGAACTCAACCCATTGGTTGG 330

QY 77 TTTATTAACTGTTTATCCCAAGCACCATAATCAACGGCTAGACTGTTCTTTATTGTT 133  
DB 331 ATCATCGACAGTGTCTGTTTCACACCAACCAATTCACCGATCCACGTGATCGGT 387

RESULT 5  
US-09-738-626-1/c  
; Sequence 1, Application US/09738626  
; Publication No. US20020197605A1  
; GENERAL INFORMATION:  
; APPLICANT: NAKAGAWA, SATOSHI  
; APPLICANT: MIZOGUCHI, HIROSHI  
; APPLICANT: ANDO, SEIKO  
; APPLICANT: HAYASHI, MIKIRO  
; APPLICANT: OCHIAI, KEIKO  
; APPLICANT: YOKOI, HARUHIKO  
; APPLICANT: TATEISHI, NAOKO  
; APPLICANT: SENOH, AKIHIRO  
; APPLICANT: IKEDA, MASATO  
; APPLICANT: OZAKI, AKIO  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-125

```
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 1
; LENGTH: 3309400
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; US-09-738-626-1

Query Match      22.0%; Score 30.6; DB 9; Length 3309400;
Best Local Similarity 53.8%; Pred. No. 2.6e+02;
Matches 63; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 17 AACTTAATAATGCTGCTCCCTCACCTCTTTCTTCAGAAAGAGGGTGACTATTGTCGG 76
Db 2900056 AAGCTCATTCATGGCAGGAGGATGCTTCATGCAGAGAACTCAACCAATGGTGGG 2899997
QY 77 TTTATTAACTGTTTATCCCCCAAGCACCATAATCAACGGCTAGACTGTTCTTATTGTT 133
Db 2899996 ATCATGCACAGTCTGTTTACACACCACCAATTCACCGATCCAACTGATCGGT 2899940

RESULT 6
US-09-960-870-13/c
; Sequence 13, Application US/09960870
; Publication No. US20030134281A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Glen
; TITLE OF INVENTION: NANOMACHINE COMPOSITIONS AND METHODS OF
; FILE REFERENCE: P-EA 4738
; CURRENT APPLICATION NUMBER: US/09/960,870
; CURRENT FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 31241
; TYPE: DNA
; ORGANISM: M. genitalium
; US-09-960-870-13

Query Match      21.9%; Score 30.4; DB 10; Length 31241;
Best Local Similarity 55.8%; Pred. No. 45;
Matches 58; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 34 CCTCACCCCTCTTTCTTCAGAAAGAGGGTGACTATTGTCGTGTTTATTAACTGTTATC 93
Db 25866 CCTCAGCCAATTTTTTTTAAACCAAGTGGTGGTTTACCACTCGGTTTGTCTCTTGTC 25807
QY 94 CCCAAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAAACA 137
Db 25806 ATTAAAGAAGCGTATCAAAATCTATACCCCTTTTTTGTCTTAA 25763

RESULT 7
US-09-960-858-13/c
; Sequence 13, Application US/09960858
; Publication No. US2003013877A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Glen
; TITLE OF INVENTION: NANOMACHINE COMPOSITIONS AND METHODS OF
; FILE REFERENCE: P-EA 4974
; CURRENT APPLICATION NUMBER: US/09/960,858
; CURRENT FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 19

Query Match      21.9%; Score 30.4; DB 10; Length 31241;
Best Local Similarity 55.8%; Pred. No. 45;
Matches 58; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 34 CCTCACCCCTCTTTCTTCAGAAAGAGGGTGACTATTGTCGTGTTTATTAACTGTTATC 93
Db 25866 CCTCAGCCAATTTTTTTTAAACCAAGTGGTGGTTTACCACTCGGTTTGTCTCTTGTC 25807
QY 94 CCCAAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAAACA 137
Db 25806 ATTAAAGAAGCGTATCAAAATCTATACCCCTTTTTTGTCTTAA 25763

RESULT 8
US-10-251-668-13/c
; Sequence 13, Application US/10251668
; Publication No. US20040063097A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Glen
; TITLE OF INVENTION: NANOMACHINE COMPOSITIONS AND METHODS OF
; FILE REFERENCE: P-EA 5441
; CURRENT APPLICATION NUMBER: US/10/251,668
; CURRENT FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US 09/960,607
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 31241
; TYPE: DNA
; ORGANISM: M. genitalium
; US-10-251-668-13

Query Match      21.9%; Score 30.4; DB 16; Length 31241;
Best Local Similarity 55.8%; Pred. No. 45;
Matches 58; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 34 CCTCACCCCTCTTTCTTCAGAAAGAGGGTGACTATTGTCGTGTTTATTAACTGTTATC 93
Db 25866 CCTCAGCCAATTTTTTTTAAACCAAGTGGTGGTTTACCACTCGGTTTGTCTCTTGTC 25807
QY 94 CCCAAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAAACA 137
Db 25806 ATTAAAGAAGCGTATCAAAATCTATACCCCTTTTTTGTCTTAA 25763

RESULT 9
US-10-433-287-79/c
; Sequence 79, Application US/10433287
; Publication No. US20040137566A1
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F
; TITLE OF INVENTION: Identification of Novel Gene Family Members Expressed by
; FILE REFERENCE: 180/132 PCT/US
; CURRENT APPLICATION NUMBER: US/10/433,287
; CURRENT FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 79
; LENGTH: 104644
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
```



```

; NAME/KEY: genomic DNA
; LOCATION: (1)..(104644)
; OTHER INFORMATION: n is an undetermined nucleotide (dATP, dCTP, dGTP, or dTTP)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(3)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (39)..(39)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (70)..(70)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (73)..(73)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (143)..(143)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (231)..(231)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (242)..(242)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (362)..(362)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11659)..(11659)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (11699)..(11699)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: MS4A7 initial coding_region
; LOCATION: (17493)..(17639)
; FEATURE:
; NAME/KEY: MS4A7 coding_region
; LOCATION: (19439)..(19573)
; FEATURE:
; NAME/KEY: MS4A7 coding_region
; LOCATION: (21068)..(21124)
; FEATURE:
; NAME/KEY: MS4A7 coding_region
; LOCATION: (23741)..(23947)
; FEATURE:
; NAME/KEY: MS4A7 coding_region
; LOCATION: (27037)..(27138)
; FEATURE:
; NAME/KEY: MS4A7 coding_region
; LOCATION: (28139)..(28210)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (32640)..(32640)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: MS4A5 initial coding_region
; LOCATION: (64028)..(64180)
; FEATURE:
; NAME/KEY: MS4A5 coding_region
; LOCATION: (65149)..(65277)
; FEATURE:
; NAME/KEY: MS4A5 coding_region
```

```

; LOCATION: (66764)..(66820)
; FEATURE:
; NAME/KEY: MS4A5 coding_region
; LOCATION: (68118)..(68270)
; FEATURE:
; NAME/KEY: MS4A5 coding_region
; LOCATION: (82002)..(82109)
; FEATURE:
; NAME/KEY: MS4A12 initial coding_region
; LOCATION: (91488)..(91760)
; FEATURE:
; NAME/KEY: MS4A12 coding_region
; LOCATION: (95210)..(95347)
; FEATURE:
; NAME/KEY: MS4A12 coding_region
; LOCATION: (96148)..(96204)
; FEATURE:
; NAME/KEY: MS4A12 coding_region
; LOCATION: (97865)..(97981)
; FEATURE:
; NAME/KEY: MS4A12 coding_region
; LOCATION: (100890)..(101000)
; FEATURE:
; NAME/KEY: MS4A12 coding_region
; LOCATION: (101182)..(101283)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (104561)..(104625)
; OTHER INFORMATION: n is a, c, g, or t
US-10-433-287-79

Query Match      21.9%; Score 30.4; DB 17; Length 104644;
Best Local Similarity 53.3%; Pred. No. 75;
Matches 64; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY      16  GAACTTAATAATGCTGCTCACCTCTTTTCTTCAGAAAGGGTGACTATTGCTG 75
Db      88420  GAACCCAGATTATTCATGGCTAGGCTATAGTATTAGGACTCAGAAATACATTTTACTG 88361

QY      76  GTTTATTAACTGTTTATCCCAAGCACCATAATCAACGCTAGACTGTGTTATTGTTAA 135
Db      88360  GGTCAAGTTCGCTTTTATAAAGGAATTAAAGACAGACAGCCAGCTTCTGATCTTTA 88301

RESULT 10
US-10-322-281-137/c
; Sequence 137, Application US/10322281
; Publication No. US20040126762A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 109559
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(109559)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-281-137

Query Match      21.9%; Score 30.4; DB 17; Length 109559;
Best Local Similarity 55.8%; Pred. No. 77;
Matches 58; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY      4  ACTCTGTCGAGAACTTAAATAATGCTGCTCACCTCTTTTCTTCAGAAAGGGTG 63
```

Db 8124 AATCGCCCAATGTTCCGACGAGTGACTCGTAACATATCGTTTATAGAAAGAGTCCACG 8065

QY 64 ACTATTGTCTGGTTTATTAACTGTTTATCCCAAGCACCATA 107

Db 8064 ACTTCTGTTTTCACATGTTCTGTGTCTCCACGCAACATA 8021

## RESULT 11

US-10-367-094-117

; Sequence 117, Application US/10367094

; Publication No. US20040170982A1

; GENERAL INFORMATION:

; APPLICANT: David W. Morris

; APPLICANT: Marc Malandro

; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer

; FILE REFERENCE: 529452001500

; CURRENT APPLICATION NUMBER: US/10/367,094

; CURRENT FILING DATE: 2003-02-14

; NUMBER OF SEQ ID NOS: 203

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 117

; LENGTH: 138363

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (1)...(138363)

; OTHER INFORMATION: n = A, T, C or G

US-10-367-094-117

Query Match 21.7%; Score 30.2; DB 17; Length 138363;

Best Local Similarity 56.6%; Pred. No. 99;

Matches 56; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 39 CCTCTTTTCTTCAGAAAGAGGTGACTATTGTCGTGGTTTATTAAGTATCCCAA 98

Db 131756 CTCTCTTTCTCTTTATTAGTCTAGTAGCCCTATTATTATATTTTTTTTCAAAA 131815

QY 99 AGCACCAATATCAACGCTAGACTGTTCTTATTGTTAAACA 137

Db 131816 ATCCAGCTCTGATTCATGATCTTTGAAATTTTCA 131854

## RESULT 12

US-10-424-599-105245/c

; Sequence 105245, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J

; APPLICANT: Kovalic David K

; APPLICANT: Zhou Yihua

; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 105245

; LENGTH: 458

; TYPE: DNA

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)...(458)

; OTHER INFORMATION: unsure at all n locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_66052C.1

US-10-424-599-105245

Query Match

Best Local Similarity 21.6%; Score 30; DB 16; Length 458;

Matches 60; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 11 TCGACGAAGCTAAATAATGCTCGCTCACCCCTCTTTTCTTCAGAAAGAGGTGACTATT 70

Db 193 TCTAGGGCTCAATTTATGATGATGATCTAGTTCATTTTATGTAAGATGAAGAGTCCC 134

QY 71 GTCTGGTTTATTAAGTGTGTTTATCCCAAGCACCATAATCAACGGCTAGAC 120

Db 133 GTCACGATTATCATTTTAAAAATATGTAAGCTCCCTTGTCAACATTTGAC 84

## RESULT 13

US-10-600-070-201

; Sequence 201, Application US/10600070

; Publication No. US20040139500A1

; GENERAL INFORMATION:

; APPLICANT: Osteryoung, Katherine W.

; APPLICANT: Witha, Stanislav

; APPLICANT: Koksharova, Olga A.

; APPLICANT: Gao, Hongbo

; TITLE OF INVENTION: Plastid Division and Related Genes and Proteins, and Methods of

; FILE REFERENCE: Use

; CURRENT APPLICATION NUMBER: US/10/600,070

; CURRENT FILING DATE: 2003-06-20

; NUMBER OF SEQ ID NOS: 206

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 201

; LENGTH: 622

; TYPE: DNA

; ORGANISM: Prunus persica

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (609)...(609)

; OTHER INFORMATION: n is a, c, g, or t

US-10-600-070-201

Query Match

Best Local Similarity 21.6%; Score 30; DB 17; Length 622;

Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 23 AATAATGCTGCTCACCCCTCTTTTCTTCAGAAAGAGGTGACTATTGTCG 76

Db 262 ATTACTTCTATATCATGCTATCTTCTTCAGAAAGATGCTGATTTAAGTGG 315

## RESULT 14

US-09-759-143-293

; Sequence 293, Application US/09759143

; Patent No. US200202248A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedwick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121-427C23

; CURRENT APPLICATION NUMBER: US/09/759,143

; CURRENT FILING DATE: 2001-01-12

; NUMBER OF SEQ ID NOS: 934

```
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 293
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-293

Query Match          21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGAGGCTGACTATTGCTGGTTTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 15
US-09-780-669-293
; Sequence 293, Application US/09780669
; Patent No. US20020051977A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 293
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-780-669-293

Query Match          21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGAGGCTGACTATTGCTGGTTTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 16
US-09-822-827-293
```

```
; Sequence 293, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 293
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-822-827-293

Query Match          21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGAGGCTGACTATTGCTGGTTTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 17
US-09-232-880-293
; Sequence 293, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232,880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 293
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-880-293

Query Match          21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGAGGCTGACTATTGCTGGTTTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 18
US-09-895-793-293
; Sequence 293, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
```

```
/ APPLICANT: Jiang, Yuqiu
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Retter, Marc W.
/ APPLICANT: Stolk, John A.
/ APPLICANT: Day, Craig H.
/ APPLICANT: Vedvick, Thomas S.
/ APPLICANT: Carter, Darrick
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skeiky, Yasir A.W.
/ APPLICANT: Hepler, William T.
/ APPLICANT: Henderson, Robert A.
/ APPLICANT: Hurl, John
/ APPLICANT: McNeill, Patricia D.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Vinals de Bassols, Carlota
/ APPLICANT: Foy, Teresa
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.534C2
/ CURRENT APPLICATION NUMBER: US/09/895,793
/ CURRENT FILING DATE: 2001-06-29
/ NUMBER OF SEQ ID NOS: 982
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 293
/ LENGTH: 301
/ TYPE: DNA
/ ORGANISM: Homo sapien
US-09-895-793-293

Query Match 21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGTCGGTTTATTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 19
US-09-895-814-293
/ Sequence 293, Application US/09895814
/ Publication No. US20020193296A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Jiang, Yuqiu
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Retter, Marc W.
/ APPLICANT: Stolk, John A.
/ APPLICANT: Day, Craig H.
/ APPLICANT: Vedvick, Thomas S.
/ APPLICANT: Carter, Darrick
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skeiky, Yasir A.W.
/ APPLICANT: Hepler, William T.
/ APPLICANT: Henderson, Robert A.
/ APPLICANT: Hurl, John
/ APPLICANT: McNeill, Patricia D.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Vinals de Bassols, Carlota
/ APPLICANT: Foy, Teresa
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.534C2
/ CURRENT APPLICATION NUMBER: US/09/895,793
/ CURRENT FILING DATE: 2001-06-29
/ NUMBER OF SEQ ID NOS: 982
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 293
/ LENGTH: 301
/ TYPE: DNA
/ ORGANISM: Homo sapien
US-09-895-793-293

Query Match 21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGTCGGTTTATTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 19
US-09-895-814-293
/ Sequence 293, Application US/09895814
/ Publication No. US20020193296A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Jiang, Yuqiu
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Retter, Marc W.
/ APPLICANT: Stolk, John A.
/ APPLICANT: Day, Craig H.
/ APPLICANT: Vedvick, Thomas S.
/ APPLICANT: Carter, Darrick
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skeiky, Yasir A.W.
/ APPLICANT: Hepler, William T.
/ APPLICANT: Henderson, Robert A.
/ APPLICANT: Hurl, John
/ APPLICANT: McNeill, Patricia D.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Vinals de Bassols, Carlota
/ APPLICANT: Foy, Teresa
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.534C2
/ CURRENT APPLICATION NUMBER: US/09/895,793
/ CURRENT FILING DATE: 2001-06-29
/ NUMBER OF SEQ ID NOS: 982
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 293
/ LENGTH: 301
/ TYPE: DNA
/ ORGANISM: Homo sapien
US-09-895-793-293
```

```
/ FILE REFERENCE: 210121.427C26
/ CURRENT APPLICATION NUMBER: US/09/895,814
/ CURRENT FILING DATE: 2001-06-29
/ NUMBER OF SEQ ID NOS: 990
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 293
/ LENGTH: 301
/ TYPE: DNA
/ ORGANISM: Homo sapien
US-09-895-814-293

Query Match 21.4%; Score 29.8; DB 9; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGTCGGTTTATTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 90 AATCAATCAATGCGCTAGAGCACTGACTGTTAAACACA 126

RESULT 20
US-10-012-896-293
/ Sequence 293, Application US/10012896
/ Publication No. US20020183251A1
/ GENERAL INFORMATION:
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Jiang, Yuqiu
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Retter, Marc W.
/ APPLICANT: Stolk, John A.
/ APPLICANT: Day, Craig H.
/ APPLICANT: Vedvick, Thomas S.
/ APPLICANT: Carter, Darrick
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skeiky, Yasir A.W.
/ APPLICANT: Hepler, William T.
/ APPLICANT: Henderson, Robert A.
/ APPLICANT: Hurl, John
/ APPLICANT: McNeill, Patricia D.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Vinals de Bassols, Carlota
/ APPLICANT: Foy, Teresa
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Wantanabe, Yoshihiro
/ APPLICANT: Meagher, Madeleine Joy
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
/ FILE REFERENCE: 210121.427C27
/ CURRENT APPLICATION NUMBER: US/10/012,896
/ CURRENT FILING DATE: 2001-12-10
/ NUMBER OF SEQ ID NOS: 1011
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 293
/ LENGTH: 301
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-012-896-293

Query Match 21.4%; Score 29.8; DB 13; Length 301;
Best Local Similarity 56.7%; Pred. No. 10;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGTCGGTTTATTAACTGTTTATCCCAAAGCA 102
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCTGACAATC 89
```



```
/ APPLICANT: Harlocker, Susan L.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
/ FILE REFERENCE: 210121.572
/ CURRENT APPLICATION NUMBER: US/10/102,524
/ CURRENT FILING DATE: 2002-03-19
/ NUMBER OF SEQ ID NOS: 1863
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 307
/ LENGTH: 434
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 44, 177, 178
/ OTHER INFORMATION: n = A,T,C or G
US-10-102-524-307

Query Match      21.4%; Score 29.8; DB 15; Length 434;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGCTGACTATTGCTGTTTAACTGTTTATCCCAAGCA 102
Db 271 CTGTTCTCACTGAAAGCTGGCTAAATGCTCTTGTGTAGTCACTTCTGATTCTGCAATC 330

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 331 AATCAATCAATGCGCTAGACACTGACTGTTAAACACA 367

RESULT 25
US-10-102-524-540
/ Sequence 540, Application US/10102524
/ Publication No. US20030109434A1
/ GENERAL INFORMATION:
/ APPLICANT: Algate, Paul A.
/ APPLICANT: Mannion, Jane
/ APPLICANT: Gaiger, Alexander
/ APPLICANT: Gordon, Brian
/ APPLICANT: Harlocker, Susan L.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
/ FILE REFERENCE: 210121.572
/ CURRENT APPLICATION NUMBER: US/10/102,524
/ CURRENT FILING DATE: 2002-03-19
/ NUMBER OF SEQ ID NOS: 1863
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 540
/ LENGTH: 434
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-102-524-540

Query Match      21.4%; Score 29.8; DB 15; Length 434;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGCTGACTATTGCTGTTTAACTGTTTATCCCAAGCA 102
Db 271 CTGTTCTCACTGAAAGCTGGCTAAATGCTCTTGTGTAGTCACTTCTGATTCTGCAATC 330

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139
Db 331 AATCAATCAATGCGCTAGACACTGACTGTTAAACACA 367

RESULT 26
US-10-027-632-81146
/ Sequence 81146, Application US/10027632
/ Publication No. US20020198371A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
```

```
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 81146
/ LENGTH: 444
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-81146

Query Match      21.4%; Score 29.8; DB 13; Length 444;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 31 CTGCTCCACCCCTCTTTTCTTCAGAAAGAGGGTGACTATTGCTGTTTATTAACCTGTTT 90
Db 318 CAGCTTCACTCTTGCTTACATATAGGCTGCTGGCTGCTTTTCATGCTACACACTGTTT 377

QY 91 ATCCCCAAAGCACCAATAATCAACGCTAGACTGTTCTT 127
Db 378 ATCCCAAGAGCGCTAAATAATATATATATATCCAGATTTT 414

RESULT 27
US-10-027-632-81146
/ Sequence 81146, Application US/10027632
/ Publication No. US20030204075A9
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 81146
/ LENGTH: 444
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-81146
```

```
Query Match      21.4%; Score 29.8; DB 15; Length 444;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 31 CTGCCTCACCTCTTTTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTT 90
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 318 CAGCTTCACCTTGCCTTACATATAAGGTCGTGGCTGCTTTCATGCTACAACTGTTT 377
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 91 ATCCCAAGACCATTAATCAACGCTAGACTGTCTTT 127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 378 ATCCCAAGACGCTAAATAATATATACATCCAGATTTT 414
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 28
US-10-027-632-109769
; Sequence 109769, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109769
; LENGTH: 463
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-109769

Query Match      21.4%; Score 29.8; DB 13; Length 463;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 31 CTGCCTCACCTCTTTTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTT 90
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 366 CAGCTTCACCTTGCCTTACATATAAGGTCGTGGCTGCTTTCATGCTACAACTGTTT 425
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 91 ATCCCAAGACCATTAATCAACGCTAGACTGTCTTT 127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 426 ATCCCAAGACGCTAAATAATATATACATCCAGATTTT 462
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 29
US-10-027-632-109769
; Sequence 109769, Application US/10027632
; Publication No. US200204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
```

```
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109769
; LENGTH: 463
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-109769

Query Match      21.4%; Score 29.8; DB 15; Length 463;
Best Local Similarity 56.7%; Pred. No. 12;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 31 CTGCCTCACCTCTTTTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTT 90
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 366 CAGCTTCACCTTGCCTTACATATAAGGTCGTGGCTGCTTTCATGCTACAACTGTTT 425
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 91 ATCCCAAGACCATTAATCAACGCTAGACTGTCTTT 127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 426 ATCCCAAGACGCTAAATAATATATACATCCAGATTTT 462
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 30
US-09-954-456-46
; Sequence 46, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance
; FILE OF INVENTION: Sets
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 46
; LENGTH: 492
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: n=a,t,g or c
US-09-954-456-46
```

Query Match 21.4%; Score 29.8; DB 9; Length 492;  
Best Local Similarity 56.7%; Pred. No. 12;  
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 43 CTTTCTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTGTTTATCCCAAAGCA 102  
DB 77 CTGTTCTCACTGAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGTGATTCTGACAATC 136  
QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139  
DB 137 AATCAATCAATGGCCTAGAGCACTGACTGTGTTAAACACA 173

Search completed: December 22, 2004, 04:21:54  
Job time : 496 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 22, 2004, 01:50:26 ; Search time 66 Seconds

(without alignments)  
1496.964 Million cell updates/sec

Title: US-10-070-882A-2

Perfect score: 139

Sequence: 1 gtgactctgtgcagcaact.....ctgtctctattgttaacaca 139

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Issued Patents NA.\*

1: /cgn2\_6/prodata/1/ina/5A COMB.seq.\*

2: /cgn2\_6/prodata/1/ina/5B COMB.seq.\*

3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*

4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*

5: /cgn2\_6/prodata/1/ina/PCUS COMB.seq.\*

6: /cgn2\_6/prodata/1/ina/backfileseq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	29.8	21.4	301	3	US-09-439-313-293
2	29.8	21.4	301	3	US-09-352-616A-293
3	29.8	21.4	301	4	US-09-232-149A-293
4	29.8	21.4	301	4	US-09-159-812-293
5	29.8	21.4	301	4	US-09-636-215-293
6	29.8	21.4	301	4	US-09-685-166A-293
7	29.8	21.4	301	4	US-09-688-489-293
8	29.8	21.4	301	4	US-09-679-426-293
9	29.8	21.4	1140	4	US-09-107-532A-1865
10	29.8	21.4	2143	4	US-09-673-395A-82
11	29.8	21.4	3174	4	US-09-489-847-86
12	29.2	21.0	16593	4	US-08-961-527-52
13	29	20.9	3010	3	US-08-714-918-71
14	29	20.9	3010	3	US-09-265-315-71
15	29	20.9	3010	3	US-09-265-315-71
16	29	20.9	3010	3	US-09-266-417-71
17	29	20.9	3010	4	US-09-528-709-71
18	29	20.9	3010	4	US-09-527-745-71
19	28.8	20.7	2347	1	US-08-453-695A-113
20	28.8	20.7	2347	1	US-08-268-161A-113
21	28.8	20.7	2347	2	US-08-453-702A-113
22	28.8	20.7	2347	3	US-09-099-639-113
23	28.8	20.7	2347	5	PCT-US95-08071-113
24	28.6	20.6	2676	3	US-09-212-971-11
25	28.6	20.6	2676	3	US-08-800-929A-11
26	28.6	20.6	2676	3	US-09-617-053A-11
27	28.6	20.6	16397	4	US-08-956-171E-205
28	28.6	20.6	16397	4	US-08-956-171E-205

c 28	28.6	20.6	16397	4	US-08-781-986A-205	Sequence 205, Appl
c 29	28.4	20.4	1092	4	US-10-138-701-1	Sequence 1, Appl
c 30	28.4	20.4	1320	1	US-08-599-252-84	Sequence 84, Appl
c 31	28.4	20.4	1320	1	US-08-436-074-57	Sequence 57, Appl
c 32	28.4	20.4	1320	5	PCT-US96-06352-84	Sequence 84, Appl
c 33	28.4	20.4	1320	5	PCT-US96-06583-84	Sequence 84, Appl
c 34	28.4	20.4	1320	5	US-08-956-171E-391	Sequence 391, Appl
c 35	28.4	20.4	2407	4	US-08-781-986A-391	Sequence 391, Appl
c 36	28.4	20.4	5549	4	US-08-956-171E-188	Sequence 188, Appl
c 37	28.4	20.4	5549	4	US-08-781-986A-188	Sequence 188, Appl
c 38	28.2	20.3	723	4	US-09-583-110-2641	Sequence 2641, Ap
c 39	28.2	20.3	1242	4	US-09-328-352-1734	Sequence 1734, Ap
c 40	28	20.1	1664976	4	US-08-916-421B-1	Sequence 1, Appl
c 41	28	20.1	1664976	4	US-09-692-570-1	Sequence 1, Appl
c 42	27.6	19.9	1815	4	US-09-436-521A-3	Sequence 3, Appl
c 43	27.2	19.6	3116	4	US-09-311-021-187	Sequence 187, Ap
c 44	27.2	19.6	4210	4	US-09-710-279-3761	Sequence 3761, Ap
c 45	27.2	19.6	107820	4	US-09-792-616-1	Sequence 1, Appl
c 46	27	19.4	174	4	US-09-492-709A-69	Sequence 69, Appl
c 47	27	19.4	174	4	US-09-492-709A-473	Sequence 473, Ap
c 48	27	19.4	2431	3	US-08-714-918-15	Sequence 15, Appl
c 49	27	19.4	2431	3	US-09-265-315-15	Sequence 15, Appl
c 50	27	19.4	2431	3	US-09-265-315-15	Sequence 15, Appl
c 51	27	19.4	2431	3	US-09-266-417-15	Sequence 15, Appl
c 52	27	19.4	2431	4	US-09-528-709-15	Sequence 15, Appl
c 53	27	19.4	2431	4	US-09-527-745-15	Sequence 15, Appl
c 54	27	19.4	5544	4	US-08-956-171E-110	Sequence 110, App
c 55	27	19.4	5544	4	US-08-781-986A-110	Sequence 110, App
c 56	27	19.4	90050	3	US-09-245-041-5	Sequence 5, Appl
c 57	27	19.4	90050	4	US-09-358-055B-5	Sequence 5, Appl
c 58	27	19.4	90050	4	US-09-893-238-5	Sequence 32, Appl
c 59	27	19.4	118999	4	US-09-791-108B-32	Sequence 75, Appl
c 60	26.8	19.3	306	4	US-09-710-279-75	Sequence 3, Appl
c 61	26.8	19.3	1319	3	US-09-200-934-3	Sequence 21, Appl
c 62	26.8	19.3	1471	4	US-09-205-258-21	Sequence 3, Appl
c 63	26.8	19.3	99916	4	US-09-816-095-3	Sequence 3, Appl
c 64	26.8	19.3	786431	4	US-09-751-389-3	Sequence 3, Appl
c 65	26.6	19.1	273	4	US-09-513-999C-30229	Sequence 30229, A
c 66	26.6	19.1	513	4	US-09-134-000C-109	Sequence 109, App
c 67	26.6	19.1	552	3	US-09-134-001C-1308	Sequence 1308, Ap
c 68	26.6	19.1	1762	1	US-07-870-029-1	Sequence 1, Appl
c 69	26.6	19.1	1970	4	US-09-023-655-1264	Sequence 1264, Ap
c 70	26.6	19.1	1381	4	US-09-484-970B-62	Sequence 62, Appl
c 71	26.6	19.1	2272	1	US-08-233-003-1	Sequence 1, Appl
c 72	26.6	19.1	2272	1	US-08-428-943-1	Sequence 1, Appl
c 73	26.6	19.1	2272	3	US-09-016-649-1	Sequence 1, Appl
c 74	26.6	19.1	2272	5	PCT-US95-04858-1	Sequence 1, Appl
c 75	26.6	19.1	14759	4	US-09-661-887-1	Sequence 1, Appl
c 76	26.6	19.1	1664976	4	US-08-916-421B-1	Sequence 1, Appl
c 77	26.6	19.1	1664976	4	US-09-692-570-1	Sequence 1, Appl
c 78	26.6	19.1	1830121	4	US-09-557-884-1	Sequence 1, Appl
c 79	26.6	19.1	1830121	4	US-09-643-990A-1	Sequence 1, Appl
c 80	26.6	19.1	1830121	4	US-10-329-960-1	Sequence 1, Appl
c 81	26.4	19.0	204	3	US-09-134-001C-2473	Sequence 2473, Ap
c 82	26.4	19.0	630	4	US-09-248-796A-3074	Sequence 1074, Ap
c 83	26.4	19.0	35100	1	US-08-306-691B-19	Sequence 19, Appl
c 84	26.4	19.0	35100	5	PCT-US93-06251-19	Sequence 19, Appl
c 85	26.2	18.8	250	4	US-09-270-767-26700	Sequence 26700, A
c 86	26.2	18.8	505	4	US-09-621-976-12828	Sequence 12828, A
c 87	26.2	18.8	746	4	US-09-270-767-11168	Sequence 11168, A
c 88	26	18.7	1404	3	US-09-134-001C-398	Sequence 398, App
c 89	26	18.7	1419	4	US-09-710-279-1901	Sequence 1901, Ap
c 90	26	18.7	2986	4	US-09-710-279-4365	Sequence 4365, Ap
c 91	25.8	18.6	330	1	US-09-513-999C-34365	Sequence 34365, A
c 92	25.8	18.6	330	5	PCT-US96-07709-6	Sequence 6, Appl
c 93	25.8	18.6	330	5	PCT-US96-07709-16	Sequence 16, Appl
c 94	25.8	18.6	396	4	US-09-621-976-15733	Sequence 15733, A
c 95	25.8	18.6	905	5	PCT-US96-07709-24	Sequence 24, Appl
c 96	25.8	18.6	905	5	PCT-US96-07709-26	Sequence 26, Appl
c 97	25.8	18.6	1002	3	US-09-134-001C-1109	Sequence 1109, Ap
c 98	25.8	18.6	2229	4	US-09-494-297A-3	Sequence 3, Appl
c 99	25.8	18.6	3572	4	US-09-710-279-3527	Sequence 3527, Ap
c 100	25.8	18.6	3572	4	US-09-710-279-3527	Sequence 3527, Ap

## ALIGNMENTS

## RESULT 1

US-09-439-313-293  
; Sequence 293, Application US/09439313  
; Patent No. 6329505  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan Louise  
; APPLICANT: Jiang Yuqi  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Kalos, Michael  
; APPLICANT: Fanger, Gary  
; APPLICANT: Retter, Mark  
; APPLICANT: Solk, John  
; APPLICANT: Day, Craig  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER  
; FILE REFERENCE: 210121.427C9  
; CURRENT APPLICATION NUMBER: US/09/439,313  
; CURRENT FILING DATE: 1999-11-12  
; NUMBER OF SEQ ID NOS: 575  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 293  
; LENGTH: 301  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-439-313-293

Query Match 21.4%; Score 29.8; DB 3; Length 301;

Best Local Similarity 56.7%; Pred. No. 0.43; Indels 0; Gaps 0;  
Matches 55; Conservative 0; Mismatches 42;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAAGCA 102  
|||  
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGCAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139  
|||  
Db 90 AATCAATCAATGGCCTAGAGCACTGACTGTTAAACACA 126

## RESULT 2

US-09-352-616A-293  
; Sequence 293, Application US/09352616A  
; Patent No. 6395278  
; GENERAL INFORMATION:  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Harlocker, Susan Louise  
; APPLICANT: Jiang, Yuqi  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Mitcham, Jennifer Lynn  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.427C8  
; CURRENT APPLICATION NUMBER: US/09/352,616A  
; CURRENT FILING DATE: 1999-07-13  
; NUMBER OF SEQ ID NOS: 472  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 293  
; LENGTH: 301  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-352-616A-293

Query Match 21.4%; Score 29.8; DB 3; Length 301;

Best Local Similarity 56.7%; Pred. No. 0.43; Indels 0; Gaps 0;  
Matches 55; Conservative 0; Mismatches 42;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAAGCA 102  
|||  
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGCAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139  
|||  
Db 90 AATCAATCAATGGCCTAGAGCACTGACTGTTAAACACA 126

## RESULT 3

US-09-232-149A-293  
; Sequence 293, Application US/09232149A  
; Patent No. 6465611  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer Lynn  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE  
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.427C6  
; CURRENT APPLICATION NUMBER: US/09/232,149A  
; CURRENT FILING DATE: 1999-01-15  
; NUMBER OF SEQ ID NOS: 338  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 293  
; LENGTH: 301  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-232-149A-293

Query Match 21.4%; Score 29.8; DB 4; Length 301;

Best Local Similarity 56.7%; Pred. No. 0.43; Indels 0; Gaps 0;  
Matches 55; Conservative 0; Mismatches 42;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAAGCA 102  
|||  
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGCAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139  
|||  
Db 90 AATCAATCAATGGCCTAGAGCACTGACTGTTAAACACA 126

## RESULT 4

US-09-159-812-293  
; Sequence 293, Application US/09159812A  
; Patent No. 6613872  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF  
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.428C5  
; CURRENT APPLICATION NUMBER: US/09/159,812A  
; CURRENT FILING DATE: 1998-09-23  
; NUMBER OF SEQ ID NOS: 306  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 293  
; LENGTH: 301  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-159-812-293

Query Match 21.4%; Score 29.8; DB 4; Length 301;

Best Local Similarity 56.7%; Pred. No. 0.43; Indels 0; Gaps 0;  
Matches 55; Conservative 0; Mismatches 42;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAAGCA 102  
|||  
Db 30 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTTAGTCACTTCTGATTCTGCAATC 89

QY 103 CCATAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139



```

;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1140 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...1140
; ; SEQUENCE DESCRIPTION: SEQ ID NO: 1865:
US-09-107-532A-1865

Query Match                21.4%;   Score 29.8;   DB 4;   Length 1140;
Best Local Similarity      66.2%;   Pred. No. 0.76;
Matches 43; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Qy 30 CTTGCGCTCACCCCTCTTTTCTTCAGAAAGAGGGTGACATTTGTCTGTTTATTAACTGTT 89
Db 431 CCTAGTTACCACCTCTCTTCGACAGAGTGCTGCTAAATAATTGACTGTTCCGTTAAATGGT 372

Qy 90 TATCC 94
Db 371 TTTC 367

RESULT 10
US-09-673-395A-82/c
; Sequence 82, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 82
; LENGTH: 2143
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-673-395A-82

Query Match                21.4%;   Score 29.8;   DB 4;   Length 2143;
Best Local Similarity      56.7%;   Pred. No. 1;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

Qy 43 CTTTTCTTCAGAAAGGGTGACTATTTCTCTGGTTTATTAAGTGTATTCCTCCCAAGCA 102
Db 1254 CTGTTCTCACTGAAAAGTCTGGCTAATGCTCTTGTGTAGTCACTTCTGATTCGTGACAATC 1195

Qy 103 CCATATCAACCTAGACTGTTCTTATTCTTAACACA 139
Db 1194 AATCAATCAATGCCCTAGAGCACTGACTGTGTTAACA 1158

RESULT 11
US-09-489-847-86
; Sequence 86, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: ROSEN ET AL
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1

```

```
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 86
; LENGTH: 3174
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-489-847-86

Query Match      21.4%; Score 29.8; DB 4; Length 3174;
Best Local Similarity 56.7%; Pred. No. 1.2;
Matches 55; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 43 CTTTCTTCAGAAAGGGTGACTATTGTCTGGTTTATTAACTGTTTATCCCAAGCA 102
    |||||
Db 1767 CTGTTCTCACTGAAAGTGGCTAATGCTTGTGTAGTCACTTCTGATTCTGACAATC 1826

QY 103 CCATATCAAGCTAGACTGTTCTTATTGTTAAACACA 139
    |||||
Db 1827 AATCAATCAATGGCTAGAGCACTGACTGTTAAACACA 1863

RESULT 12
US-08-961-527-52/c
; Sequence 52, Application US/08961527
; Patent No. 6420135
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 391
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/961,527
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 222/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3010 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-714-918-71

Query Match      20.9%; Score 29; DB 3; Length 3010;
Best Local Similarity 52.5%; Pred. No. 2.2;
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 7 CTGGTCGACGAACCTTAATAATCCCTGCTCACCCTCTTTCTTCAGAAAGGGTGACT 66
    |||||
Db 1119 CTGCTTTAGTCGCTTGAATAATTTCCGAGCAACGTCAGGCTCTTAAGATTAGCCGGANC 1178
    |||||
```

```
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-961-527-52

Query Match      21.0%; Score 29.2; DB 4; Length 16593;
Best Local Similarity 81.0%; Pred. No. 3.9;
Matches 34; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 39 CCCTCTTTCTTCAGAAAGGGTGACTATTGTCTGTTTAA 80
    |||||
Db 12443 CCCACCTTCCTTCAGAATGCTGCTGACTATCTGCTGGCTTA 12402

RESULT 13
US-08-714-918-71
; Sequence 71, Application US/08714918
; Patent No. 6037123
; GENERAL INFORMATION:
; APPLICANT: Benton, Bret
; APPLICANT: Lee, Ving
; APPLICANT: Malouin, Francois
; APPLICANT: Martin, Patrick K.
; APPLICANT: Schmid, Molly B.
; APPLICANT: Sun, Dongxu
; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL
; TITLE OF INVENTION: TARGET GENES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/714,918
; FILING DATE: September 13, 1996
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 222/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3010 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-714-918-71

Query Match      20.9%; Score 29; DB 3; Length 3010;
Best Local Similarity 52.5%; Pred. No. 2.2;
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 7 CTGGTCGACGAACCTTAATAATCCCTGCTCACCCTCTTTCTTCAGAAAGGGTGACT 66
    |||||
Db 1119 CTGCTTTAGTCGCTTGAATAATTTCCGAGCAACGTCAGGCTCTTAAGATTAGCCGGANC 1178
    |||||
```

QY 67 ATTGTCTGCTTTATTAACTGTTTATCCCAAGCACCAATATCAACGCTAGACTGTT 124  
Db 1179 CCTTACCCTTTTAGCAACATTTGCTACAGGACATCCCATATTTAAGTCTATGCGCTTT 1236

## RESULT 14

US-09-265-315-71  
; Sequence 71, Application US/09265315  
; Patent No. 6187541  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.  
; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-09-265-315-71

Query Match 20.9%; Score 29; DB 3; Length 3010;  
Best Local Similarity 52.5%; Pred. No. 2.2;  
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;  
QY 7 CTGGTCGACGAACCTTAAATAATGCTGCTCACCTCTCTTTCTTCAGAAAGGGTGACT 66  
Db 1119 CTGCTTTAGTCGCTTGAATAATTTGCGCAGCAACGTCAGGCTCTTAAGATTAAAGCCGGANC 1178  
QY 67 ATTGTCTGCTTTATTAACTGTTTATCCCAAGCACCAATATCAACGCTAGACTGTT 124  
Db 1179 CCTTACCCTTTTAGCAACATTTGCTACAGGACATCCCATATTTAAGTCTATGCGCTTT 1236

## RESULT 15

US-09-265-315-71  
; Sequence 71, Application US/09265315  
; Patent No. 6187541  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.  
; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-09-265-315-71

Query Match 20.9%; Score 29; DB 3; Length 3010;  
Best Local Similarity 52.5%; Pred. No. 2.2;  
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;  
QY 7 CTGGTCGACGAACCTTAAATAATGCTGCTCACCTCTCTTTCTTCAGAAAGGGTGACT 66  
Db 1119 CTGCTTTAGTCGCTTGAATAATTTGCGCAGCAACGTCAGGCTCTTAAGATTAAAGCCGGANC 1178  
QY 67 ATTGTCTGCTTTATTAACTGTTTATCCCAAGCACCAATATCAACGCTAGACTGTT 124  
Db 1179 CCTTACCCTTTTAGCAACATTTGCTACAGGACATCCCATATTTAAGTCTATGCGCTTT 1236

## RESULT 16

US-09-266-417-71

; Sequence 71, Application US/09266417  
; Patent No. 6228588  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.  
; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/266,417  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/248  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-266-417-71

Query Match 20.9%; Score 29; DB 3; Length 3010;  
Best Local Similarity 52.5%; Pred. No. 2.2;  
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;  
QY 7 CTGGTCGACGAATTAAATGCGCTGCCTCACCCTCTTTCTTCAGAAAGAGGGTGACT 66  
DB 1119 CTGCTTTAGTCGCTTGATAAATTCGCGCAGCAACGTCAGGCTCTTAAGATTAAAGCCGGANC 1178  
QY 67 ATTGTGCTGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGCTAGACTGTT 124  
DB 1179 CCTTACCTTTTTCAGCAATTTGCTACAGGACATCCCATATTAAGTCTATGCTCTTT 1236

RESULT 17  
US-09-528-709-71  
; Sequence 71, Application US/09528709  
; Patent No. 6630303  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret

; Lee, Ving  
; Malouin, Francois  
; Martin, Patrick K.  
; Schmid, Molly B.  
; Sun, Dongxu  
; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/528,709  
; FILING DATE: 17-Mar-2000  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 222/005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 71:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3010 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 71:  
; US-09-528-709-71

Query Match 20.9%; Score 29; DB 4; Length 3010;  
Best Local Similarity 52.5%; Pred. No. 2.2;  
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;  
QY 7 CTGGTCGACGAATTAAATGCGCTGCCTCACCCTCTTTCTTCAGAAAGAGGGTGACT 66  
DB 1119 CTGCTTTAGTCGCTTGATAAATTCGCGCAGCAACGTCAGGCTCTTAAGATTAAAGCCGGANC 1178  
QY 67 ATTGTGCTGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGCTAGACTGTT 124  
DB 1179 CCTTACCTTTTTCAGCAATTTGCTACAGGACATCCCATATTAAGTCTATGCTCTTT 1236

RESULT 18  
US-09-527-745-71  
; Sequence 71, Application US/09527745  
; Patent No. 6638718  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving  
; Malouin, Francois  
; Martin, Patrick K.  
; Schmid, Molly B.

```

RESULT 19
US-08-453-695A-113/c
; Sequence 113. Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
;

```

```

RESULT 20
US-08-268-161A-113/c
; Sequence 113, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337
; REFERENCE/DOCKET NUMBER: 27866/32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448

```



TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 113:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2347 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; US-08-268-161A-113

Query Match 20.7%; Score 28.8; DB 1; Length 2347;  
Best Local Similarity 60.0%; Pred. No. 2.3;  
Matches 48; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 56 AGAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGC 115  
DB 366 AGATGGAGACTTTTCTCGGTCCAAATATTTCATGTCACCAATCTATAATAATTATCTA 307

QY 116 TAGACTGTTCTTATTGTTAA 135  
DB 306 TTGACTTTTCTAATTTAAAA 287

RESULT 21  
US-08-453-702A-113/c  
; Sequence 113, Application US/08453702A  
; Patent No. 5891706  
; GENERAL INFORMATION:  
; APPLICANT: Suzuki, Shintaro  
; TITLE OF INVENTION: Protocadherin Materials and Methods  
; NUMBER OF SEQUENCES: 115  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &  
; STREET: 233 South Wacker, 6300 Sears Tower  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 18 JUN 1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: US 08/263,161  
; APPLICATION NUMBER: 27 JUN 1994  
; FILING DATE: 27 JUN 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Greta E. No. 6262237and  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 27866/34703  
; TELEPHONE: 312/474-6300  
; TELEFAX: 312/474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 113:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2347 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; US-08-453-702A-113

Query Match 20.7%; Score 28.8; DB 2; Length 2347;  
Best Local Similarity 60.0%; Pred. No. 2.3;  
Matches 48; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 56 AGAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGC 115  
DB 366 AGATGGAGACTTTTCTCGGTCCAAATATTTCATGTCACCAATCTATAATAATTATCTA 307

QY 116 TAGACTGTTCTTATTGTTAA 135  
DB 306 TTGACTTTTCTAATTTAAAA 287

RESULT 22  
US-09-099-639-113/c  
; Sequence 113, Application US/09099639  
; Patent No. 6262237  
; GENERAL INFORMATION:  
; APPLICANT: Suzuki, Shintaro  
; TITLE OF INVENTION: Protocadherin Materials and Methods  
; NUMBER OF SEQUENCES: 115  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &  
; STREET: 233 South Wacker, 6300 Sears Tower  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: 18 JUN 1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: US 08/263,161  
; APPLICATION NUMBER: 27 JUN 1994  
; FILING DATE: 27 JUN 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Greta E. No. 6262237and  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 27866/34703  
; TELEPHONE: 312/474-6300  
; TELEFAX: 312/474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 113:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2347 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; US-09-099-639-113

Query Match 20.7%; Score 28.8; DB 3; Length 2347;  
Best Local Similarity 60.0%; Pred. No. 2.3;  
Matches 48; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 56 AGAGGGTGACTATTGCTGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGC 115  
DB 366 AGATGGAGACTTTTCTCGGTCCAAATATTTCATGTCACCAATCTATAATAATTATCTA 307

QY 116 TAGACTGTTCTTATTGTTAA 135  
DB 306 TTGACTTTTCTAATTTAAAA 287

RESULT 23  
PCT-US95-08071-113/c  
; Sequence 113, Application PC/TUS9508071  
; GENERAL INFORMATION:  
; APPLICANT: Suzuki, Shintaro  
; TITLE OF INVENTION: Protocadherin Materials and Methods  
; NUMBER OF SEQUENCES: 115  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &  
; STREET: 6300 Sears Tower, 233 S. Wacker Drive

;; CITY: Chicago  
;; STATE: Illinois  
;; COUNTRY: USA  
;; ZIP: 60606  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US95/08071  
;; FILING DATE:  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US93/12588  
;; FILING DATE: 23 DEC 1993  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/998,003  
;; FILING DATE: 29 DEC 1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Noland, Greta E.  
;; REGISTRATION NUMBER: 35,302  
;; REFERENCE/DOCKET NUMBER: 32149  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 312/474-6300  
;; TELEFAX: 312/474-0448  
;; TELEX: 25-3856  
;; INFORMATION FOR SEQ ID NO: 113:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 2347 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: cdna  
PCT-US95-08071-113

Query Match 20.7%; Score 28.8; DB 5; Length 2347;  
Best Local Similarity 60.0%; Pred. No. 2.3;  
Matches 48; Conservative 0; Mismatches 32; Indels 0; Gaps 0;  
QY 56 AGAGGGTGACTATTGTCGTGTTTAACTGTTTATCCCAAGCACCATAATCAACGC 115  
DB 366 AGATGAGACTTTTTCGGTCCAAATATTCATGTCACCATCTATTAATATCTA 307  
QY 116 TAGACTGTTCTTATGTTAA 135  
DB 306 TTGACTTTTCTAATTTAAAA 287

RESULT 24  
US-09-212-971-11/c  
; Sequence 11, Application US/09212971B  
; Patent No. 6107041  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Teang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; TITLE OF INVENTION: DISEASE  
; FILE REFERENCE: 07891/009002  
; CURRENT APPLICATION NUMBER: US/09/212,971B  
; CURRENT FILING DATE: 1998-12-16  
; EARLIER APPLICATION NUMBER: 60/017,354  
; EARLIER FILING DATE: 1996-04-26  
; EARLIER APPLICATION NUMBER: 60/030,590  
; EARLIER FILING DATE: 1996-11-14  
; EARLIER APPLICATION NUMBER: 08/800,929  
; EARLIER FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17

;; SOFTWARE: FastSEQ for Windows Version 4.0  
;; SEQ ID NO 11  
;; LENGTH: 2676  
;; TYPE: DNA  
;; ORGANISM: Mus musculus  
US-09-212-971-11  
Query Match 20.6%; Score 28.6; DB 3; Length 2676;  
Best Local Similarity 64.2%; Pred. No. 2.9;  
Matches 43; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
QY 42 TCCTTTCTTCAGAAAGAGGGTGACTATTGTCGTGTTTAACTGTTTATCCCAAGC 101  
DB 2671 TTTTCTTTAAAAAAGAGGTAATATGTCGTTTAACTTTTCTCACAATTC 2612  
QY 102 ACCATAA 108  
DB 2611 TTTATAA 2605

RESULT 25  
US-08-800-929A-11/c  
; Sequence 11, Application US/08800929A  
; Patent No. 6133437  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Teang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF  
; TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; TITLE OF INVENTION: DISEASE  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Clark & Elbing LLP  
; STREET: 176 Federal Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/800,929A  
; FILING DATE: 13-FEB-1997  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/030,590  
; FILING DATE: 14-NOV-1996  
; APPLICATION NUMBER: 60/017,354  
; FILING DATE: 26-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bieker-Brady, Kristina  
; REGISTRATION NUMBER:  
; REFERENCE/DOCKET NUMBER: 07891/009001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-428-0200  
; TELEFAX: 617-428-7045  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2676 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna  
US-08-800-929A-11

Query Match 20.6%; Score 28.6; DB 3; Length 2676;  
Best Local Similarity 64.2%; Pred. No. 2.9;  
Matches 43; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 42 TCTTTTCTTCAGAAAGAGGTGACTATTGCTGCTGTTTATTAAGTCTTTATCCCAAGC 101  
DB 2671 TTTTCTTTTAAAAAAGAGGTAATTATGTTGCTTTATTAATCTTTTCTCAAAATTC 2612

QY 102 ACCATAA 108  
DB 2611 TTTATAA 2605

RESULT 26  
US-09-617-053A-11/c  
; Sequence 11, Application US/09617053A  
; Patent No. 6300492  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; TITLE OF INVENTION: DISEASE  
; FILE REFERENCE: 07891/009003  
; CURRENT APPLICATION NUMBER: US/09/617,053A  
; CURRENT FILING DATE: 2000-07-14  
; PRIOR APPLICATION NUMBER: US 08/800,929  
; PRIOR FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11  
; LENGTH: 2676  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-617-053A-11

Query Match 20.6%; Score 28.6; DB 3; Length 2676;  
Best Local Similarity 64.2%; Pred. No. 2.9;  
Matches 43; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 42 TCTTTTCTTCAGAAAGAGGTGACTATTGCTGCTGTTTATTAAGTCTTTATCCCAAGC 101  
DB 2671 TTTTCTTTTAAAAAAGAGGTAATTATGTTGCTTTATTAATCTTTTCTCAAAATTC 2612

QY 102 ACCATAA 108  
DB 2611 TTTATAA 2605

RESULT 27  
US-08-956-171E-205/c  
; Sequence 205, Application US/08956171E  
; Patent No. 6593114  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; Gil H. Choi  
; Patrick S. Dillon  
; Craig A. Rosen  
; Steven C. Barash  
; Michael R. Fannon  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5256  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/956,171E  
FILING DATE: 20-Oct-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/009,861  
FILING DATE: January 5, 1996  
APPLICATION NUMBER: 08/781,986  
FILING DATE: January 3, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Mark J. Hyman  
REGISTRATION NUMBER: 46,789  
REFERENCE/DOCKET NUMBER: PB248P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (240) 314-1224  
TELEFAX: (301) 309-8439  
INFORMATION FOR SEQ ID NO: 205:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16397 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 205:  
US-08-956-171E-205

Query Match 20.6%; Score 28.6; DB 4; Length 16397;  
Best Local Similarity 53.9%; Pred. No. 6.3;  
Matches 55; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 14 ACGAAGCTTAATAATGCGCTGCCTCACCCCTCTTTTCTTCAGAAAGAGGTGACTATTGTC 73  
DB 4185 ACTAACTTAATATCAACGTTTAAATGGNAATTTCAATACCGTGGTATCCGTCACCG 4126

QY 74 TGGTTTATTAACTGTTTATCCCAAGACCAATATCAACGC 115  
DB 4125 TCGTGGTTTACCAGTTTCGTTGTCACAAAACGAAAAACMACGC 4084

RESULT 28  
US-08-781-986A-205/c  
; Sequence 205, Application US/08781986A  
; Patent No. 6737248  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5255  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/781,986A  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Benson, Bob  
REGISTRATION NUMBER: 30,446

```
; REFERENCE/DOCKET NUMBER: PB248PP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 205:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16397 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-781-986A-205

Query Match          20.6%; Score 28.6; DB 4; Length 16397;
Best Local Similarity 53.9%; Pred. No. 6.3;
Matches 55; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 14 ACGAAGCTTAATATGCTGCTCCTCACCTCTTTTCTTCAGAAAGAGGGTGACTATTGTGTC 73
Db 4185 ACTAACTTAATATCAAAACGTTTAAATGGAATTTTCATACCGTGGGTATCCGTCACCG 4126

QY 74 TGGTTTAACTGTTTATCCCAAGCACCAATCAACGC 115
Db 4125 TCGTGGTTTACCAGTTCGTGTCATAAAACGAAACACGC 4084

RESULT 29
US-10-138-701-1
; Sequence 1, Application US/10138701
; Patent No. 6753149
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc. et al.
; TITLE OF INVENTION: Staphylococcus aureus genes and polypeptides
; FILE REFERENCE: PB484
; CURRENT APPLICATION NUMBER: US/10/138,701
; PRIOR FILING DATE: 2002-05-06
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1998-09-01
; PRIOR FILING DATE: 1998-09-01
; PRIOR FILING DATE: 1996-01-05
; PRIOR FILING DATE: 1999-08-31
; PRIOR FILING DATE: 1997-10-20
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 1
; LENGTH: 1092
; TYPE: DNA
; ORGANISM: Staphylococcus aureus
US-10-138-701-1

Query Match          20.4%; Score 28.4; DB 4; Length 1092;
Best Local Similarity 52.5%; Pred. No. 2.3;
Matches 62; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 20 TTAATATATGCTGCTCCTCACCTCTTTTCTTCAGAAAGAGGGTGACTATTGTGCTGTTT 79
Db 54 TAAATTAATACCTGTTTAAATTTTATTAAGAGGTTTCACTATCAACGTGGGTA 113

QY 80 ATTAACTGTTTATCCCAAGCACCAATCAACGCTAGACTGTTCTTATGTTTAAACA 137
Db 114 TTAAGGTTTGTGTCATATGCGCCAGAAAGATTATTGACAATGCTATTGAGCA 171
```

```
RESULT 30
US-08-599-252-84/c
; Sequence 84, Application US/08599252
; Patent No. 5705343
; GENERAL INFORMATION:
; APPLICANT: DRAYNA, DENNIS T.
; APPLICANT: FEDER, JOHN N.
```

```
; APPLICANT: GNIRKE, ANDREAS
; APPLICANT: KIMMEL, BRUCE E.
; APPLICANT: THOMAS, WINSTON J.
; APPLICANT: WOLFF, ROGER K.
; TITLE OF INVENTION: METHOD TO DIAGNOSE HEREDITARY
; TITLE OF INVENTION: HEMOCHROMATOSIS
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/599,252
; FILING DATE: 09-FEB-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 9053-0001.21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-599-252-84

Query Match          20.4%; Score 28.4; DB 1; Length 1320;
Best Local Similarity 50.7%; Pred. No. 2.5;
Matches 68; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

QY 2 TGACTCTGCTCGACCAACTTAAATAATGCTGCTCACCTCTTTTCTTCAGAAAGAGGG 61
Db 304 TTATTTTCTAGAAAGTTCAAATATGCTTTTATAGTCCAAATGCTTGAATGAGAGCC 245

QY 62 TGACTATTGCTGCTGTTTATTAACCTGTTTATCCCAAGCACCAATCAACGCTAGACT 121
Db 244 AAAATAAATTTGTTTAAATTTATCCAGCTTTAGTATATATCCCAACCAATCAACCGTGGATT 185

QY 122 GTTCTTATTGTTAA 135
Db 184 CTGCACATTTTGA 171

Search completed: December 22, 2004, 03:32:09
Job time : 75 secs
```

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 22, 2004, 01:40:57 ; Search time 1743 Seconds  
(without alignments)  
2905.980 Million cell updates/sec

Title: US-10-070-882A-2  
Perfect score: 139  
Sequence: 1 gggactctggcgagcaact.....ctgtttattgttaacaca 139

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : EST.\*

1: gb\_est1.\*

2: gb\_est2.\*

3: gb\_hic.\*

4: gb\_est3.\*

5: gb\_est4.\*

6: gb\_est5.\*

7: gb\_est6.\*

8: gb\_gss1.\*

9: gb\_gss2.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	34.8	25.0	3932	3 AK082454	AK082454 Mus muscu
2	34.4	24.7	414	6 BY642267	BY642267 BY642267
3	33.6	24.2	204	1 AV231406	AV231406 AV231406
4	33.6	24.2	274	2 BB775700	BB775700 BB775700
5	33.6	24.2	318	2 BB094276	BB094276 BB094276
6	33.6	24.2	335	2 BB222962	BB222962 BB222962
7	33.6	24.2	448	5 BY439440	BY439440 BY439440
C 8	33.6	24.2	570	8 AZ435636	AZ435636 1M0222H14
9	33.6	24.2	590	2 BE131381	BE131381 L48-1355T
10	33.6	24.2	605	4 BM658097	BM658097 MCR059H01
11	33.6	24.2	625	6 CA835622	CA835622 MCS039B06
12	33.6	24.2	633	6 CA834105	CA834105 MCS028H02
13	33.6	24.2	674	4 BM301497	BM301497 MCR046F12
14	33.6	24.2	699	4 BM301422	BM301422 MCR045F12
15	33.6	24.2	746	2 CR303205	CR303205 Medicago
16	33.6	24.2	863	2 BE035174	BE035174 M022809 M
17	33.6	24.2	866	9 CR308064	CR308064 Medicago
18	33.6	24.2	889	9 CG952370	CG952370 MBEAT30TR
19	33.6	24.2	1192	2 BE037111	BE037111 MF15B07 M
C 20	33.4	24.0	521	8 AQ830244	AQ830244 HS 4825_B
21	33.4	24.0	728	9 AG308530	AG308530 Mus muscu
C 22	33.4	24.0	957	6 CA791309	CA791309 AGENCOURT
23	33.2	23.9	205	2 BB004186	BB004186 BB004186
24	33	23.7	467	8 BZ915818	BZ915818 CH240_59A

```

c 98 30.6 22.0 453 1 AJ574756 AJ574756
c 99 30.6 22.0 465 2 BE687044 BE687044 uv92f06.Y
c 100 30.6 22.0 564 4 BG985735 BG985735 2734 NICH

ALIGNMENTS

RESULT 1
AK082454/c
LOCUS AK082454 3932 bp mRNA linear HTC 03-APR-2004
DEFINITION Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length
enriched library, clone:C230052F14 product:unclassified, full
insert sequence.
ACCESSION AK082454
VERSION AK082454.1 GI:26100683
KEYWORDS HTC; CAP trapper.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1
Carninci, P. and Hayashizaki, Y.
TITLE High-efficiency full-length cDNA cloning
JOURNAL Mech. Enzymol. 303, 19-44 (1999)
MEDLINE 99279253
PUBMED 10349636
REFERENCE 2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
TITLE Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
JOURNAL Genome Res. 10 (10), 1617-1630 (2000)
MEDLINE 20499374
PUBMED 11042159
REFERENCE 3
Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
Konno, H., Akiyama, S., Nishi, K., Kitsuina, T., Tashiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohata, E., Watahiki, M.,
Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
TITLE RIKEN integrated sequence analysis (RISA) system--384-Format
sequencing pipeline with 384 multicapillary sequencer
JOURNAL Genome Res. 10 (11), 1757-1771 (2000)
MEDLINE 20530913
PUBMED 11076861
REFERENCE 4
The RIKEN Genome Exploration Research Group Phase II Team and the
FANTOM Consortium.
TITLE Functional annotation of a full-length mouse cDNA collection
JOURNAL Nature 409, 685-690 (2001)
REFERENCE 5
The FANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.
TITLE Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
JOURNAL Nature 420, 563-573 (2002)
MEDLINE 12039253
PUBMED 12039253
REFERENCE 6
Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
Sano, H., Sasaki, D., Shibata, K., Shingushi, A., Shiraki, T.,
Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
Muramatsu, M. and Hayashizaki, Y.
TITLE Direct Submission

```

**JOURNAL**

Submitted (16-APR-2002) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)

**COMMENT**

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Please visit our web site for further details.

URL: http://genome.gsc.riken.jp/

URL: http://fantom.gsc.riken.jp/.

**FEATURES**

source

1..3932

Location/Qualifiers

organism="Mus musculus"

molecule="mRNA"

strain="C57BL/6J"

db\_xref="FANTOM DB:C230052F14"

clone\_xref="taxon:10090"

clone="C230052F14"

tissue type="cerebellum"

clone\_lib="RIKEN full-length enriched mouse cDNA library"

dev stage="0 day neonate"

misc\_feature 1..3932

note="unclassified"

**ORIGIN**

Query Match 25.0%; Score 34.8; DB 3; Length 3932;

Best Local Similarity 54.8%; Pred. No. 13;

Matches 69; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 14 ACGAATTAAATAGCCGCTCACCCCTCTTTCTTCAGAAAGGGGACTATTGTC 73

Db 2194 ACTATCTCATTTAAAGGCTCTCTCATCTGTGTATATAATGTTGTGAGGATTTTG 2135

QY 74 TGGTTTATTAACTGTTTATCCCAAGCACCATAATCAACGTACACTGTTCTTATTGTT 133

Db 2134 TGGTATATGAACTGTTTCTCAGAAATCATTGAATAATGTTGATAGTCAAAGTGT 2075

QY 134 AACACA 139

Db 2074 CAAGCA 2069

**RESULT 2**

BY642267 414 bp mRNA linear EST 15-DEC-2002

**LOCUS**

BY642267 RIKEN full-length enriched, visual cortex Mus musculus

**DEFINITION**

CDNA clone K430350A22 3', mRNA sequence.

**ACCESSION**

BY642267

**VERSION**

BY642267.1 GI:26977449

**KEYWORDS**

EST.

**SOURCE**

Mus musculus (house mouse)

**ORGANISM**

Mus musculus

**REFERENCE**

**AUTHORS**

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 414)

Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Ohsato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldairelli, R., Hill, D. P., Bult, C., Hume, D. A., Quackenbush, J., Schirral, L. M., Kanapin, A., Matsuda, H., Batalov, S., Beisel, K. W., Blake, J. A., Bradt, D., Bruscia, V., Chochua, C., Corbani, L. E., Cousins, S., Daila, E., Dragani, T. A., Fletcher, C. F., Forrest, A., Frazer, K. S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I. J., Jarvis, E. D., Kanai, A., Kawai, H., Kawasawa, Y., Kedzierski, R. M., King, B. L., Konagaya, A., Kurochkin, I. V., Lee, Y., Lenhard, B., Lyons, P. A., Maglott, D. R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T.,

Numata, K., Okido, T., Pavan, W.J., Perteau, G., Pesole, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, D.J., Reid, J., Ring, B.Z., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Hayatsu, N., Hirozane-Kishikawa, T., Konno, H., Nakamura, M., Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Akakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shingawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Rogers, J., Birney, E. and Hayashizaki, Y.

**TITLE**  
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

**JOURNAL MEDLINE PUBLISHED**  
Nature 420, 563-573 (2002)  
22354683  
1246851

**COMMENT**  
Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gscc.riken.jp, URL: <http://genome.gsc.riken.jp/>  
Aizawa, K., Akimura, T., Akakawa, T., Carninci, P., Fukuda, S., Hirozane, T., Imotani, K., Ishii, Y., Itoh, M., Kawai, J., Konno, H., Miyazaki, A., Murata, M., Nakamura, M., Nomura, K., Numazaki, R., Ohno, M., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K., Shiraki, T., Tagami, M., Waki, K., Watahiki, A., Muramatsu, M. and Hayashizaki, Y. Direct Submission  
Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)  
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)  
RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)  
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.  
Tissues were provided by Michela Fagioli and Takao K. Hensch (Laboratory for Neuronal Circuit Development Brain Science Institute RIKEN 2-1 Hirose, Wako-shi, Saitama 351-0198 Japan) whose assistance we gratefully acknowledge.  
Please visit our web site (<http://genome.gsc.riken.go.jp>) for further details.

**FEATURES**  
source  
Location/Qualifiers  
1. .414  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="K430350A22"  
/tissue types="visual cortex"  
/clone\_lib="RIKEN full-length enriched, visual cortex"

**ORIGIN**  
Query Match 24.7%; Score 34.4; DB 6; Length 414;  
Best Local Similarity 57.4%; Pred. No. 11;  
Matches 62; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 31 CTGCTCAGGCTCTTCTTCAGAGAGAGGCTGACTATTGCTGCTGTTATTATTAACGTGTT 90  
|||||  
DB 214 CTGCTCAGGCTCTTCTTCTTGAGCTGTGGTCCCACTGTTTCAGATCTCTTCACGTGTT 273  
|||||

QY 91 ATCCCAAAGCACCATAATCAACGCTAGACTGTCTTATTGTTAACAC 138  
|||||  
DB 274 TTCTTCAGACCAACCCACACATTCGTTGACAGTCTTGTGTGCGGC 321  
|||||

**RESULT 3**  
AV2311406  
LOCUS  
DEFINITION  
AV2311406 RIKEN full-length enriched, 0 day neonate skin Mus  
musculus cDNA clone 4632406L08 3', mRNA sequence.  
ACCESSION  
AV2311406  
VERSION  
AV2311406.1 GI:6183921  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
REFERENCE  
1 (bases 1 to 204)  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
Konno, H., Aizawa, K., Akahira, S., Akiyama, J., Carninci, P., Endo, T., Fukuda, S., Fukunishi, Y., Hara, A., Hayatsu, N., Hirozane, T., Hori, F., Ishii, Y., Ishikawa, T., Itoh, M., Izawa, M., Kadota, K., Kagawa, I., Kai, C., Kawai, J., Kikuchi, N., Kojima, Y., Koya, S., Kusakabe, M., Matsuyama, T., Miki, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y., Owa, C., Ozawa, Y., Saito, H., Sano, M., Sato, K., Shibata, K., Shibata, Y., Shigemoto, Y., Shiraki, T., Sogabe, Y., Sugahara, Y., Suzuki, H., Suzuki, H., Takahashi, F., Tateno, M., Tomimaga, N., Tsunoda, Y., Watahiki, A., Watanabe, S., Yamamura, T., Yasunishi, A., Yokota, T., Yoshiki, A., Yoshino, M., Muramatsu, M. and Hayashizaki, Y. RIKEN Mouse ESTs (Konno, H., et al. 1999)  
Unpublished (1999)  
Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gscc.riken.jp, URL: <http://genome.gsc.riken.jp/>  
Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y., Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
Transcriptional sequencing: A method for DNA sequencing using RNA polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
Itoh, M., Kitsuunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.  
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
Please visit our web site (<http://genome.gsc.riken.go.jp>) for further details.

**FEATURES**  
Location/Qualifiers  
1. .204  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="4632406L08"  
/sex="mixed"  
/tissue type="skin"  
/lab\_host="DH10B"  
/clone\_lib="RIKEN full-length enriched, 0 day neonate skin"  
/notes="Site 1: Sali; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was







RESULT 7  
 BY439440  
 LOCUS  
 DEFINITION  
 ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 REFERENCE  
 AUTHORS

BY439440 448 bp mRNA linear EST 13-DEC-2002  
 BY439440 RIKEN full-length enriched, pooled tissues, 16 days  
 embryo, etc. Mus musculus cDNA clone I920162D12 3', mRNA sequence.  
 BY439440.1 GI:26723810  
 EST  
 Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 448)

Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S.,  
 Nikaide, I., Oeato, N., Saito, R., Suzuki, H., Yamanaka, I.,  
 Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A.,  
 Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C.,  
 Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H.,  
 Batalov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V.,  
 Choithia, C., Corbani, L.E., Cousins, S., Dalla, E., Dragani, T.A.,  
 Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T.,  
 Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S.,  
 Gutting, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A.,  
 Kawaji, H., Kawagawa, Y., Kedzierzki, R.M., King, B.L., Konagaya, A.,  
 Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R.,  
 Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T.,  
 Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G.,  
 Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S.,  
 Ravasi, T., Reed, J.C., Reed, D.J., Reid, J., Ring, B.Z., Ringwald, M.,  
 Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K.,  
 Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tonita, M.,  
 Varardo, R., Wagner, L., Wahlstedt, C., Wang, Y., Watanabe, Y.,  
 Wells, C., Wilming, L.G., Wyszynski, B., Yang, I.,  
 Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P.,  
 Hayatsu, N., Hirozane-Kishikawa, T., Konno, H., Nakamura, M.,  
 Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K.,  
 Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y.,  
 Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K.,  
 Shingawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S.,  
 Rogers, J., Birney, E. and Hayashizaki, Y.  
 Analysis of the mouse transcriptome based on functional annotation  
 of 60,770 full-length cDNAs  
 Nature 420, 563-573 (2002)

TITLE  
 JOURNAL  
 MEDLINE  
 PUBMED  
 COMMENT

Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic  
 Sciences Center (GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@sc.riken.jp, URL: <http://genome.gsc.riken.jp/>  
 Aizawa, K., Akimura, T., Arakawa, T., Carninci, P., Fukuda, S.,  
 Hirozane, T., Imotani, K., Ishii, Y., Itoh, M., Kawai, J., Konno, H.,  
 Miyazaki, A., Murata, M., Nakamura, M., Nomura, K., Numazaki, R.,  
 Ono, M., Sakai, K., Sakazume, N., Sasaki, D., Sato, K., Shibata, K.,  
 Shiraki, T., Tagami, M., Waki, K., Watahiki, A., Muramatsu, M. and  
 Hayashizaki, Y. Direct Submission  
 Computational Analysis of Full-Length Mouse cDNAs Compared with  
 Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)  
 Normalization and subtraction of cap-trapper-selected cDNAs to  
 prepare full-length cDNA libraries for rapid discovery of new  
 genes. Genome Res. 10 (10), 1617-1630 (2000)  
 RIKEN integrated sequence analysis (RISA) system--384-format  
 sequencing pipeline with 384 multicapillary sequencer. Genome Res.  
 10 (11), 1757-1771 (2000)  
 Computer-based methods for the mouse full-length cDNA  
 encyclopedia: real-time sequence clustering for construction of a  
 non-redundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
 cDNA library was prepared and sequenced in Mouse Genome

FEATURES  
 source

1. 448  
 /organism="Mus musculus"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:10090"  
 /clone\_lib="RIKEN full-length enriched, pooled tissues, 16  
 days embryo, etc."  
 /notes="pooled tissues: (dev\_stage=16 days  
 embryo, tissue\_type=heart, sex=mix), (dev\_stage=16 days  
 embryo, tissue\_type=kidney, sex=mix), (dev\_stage=17 days  
 embryo, tissue\_type=heart, sex=mix), (dev\_stage=17 days  
 embryo, tissue\_type=stomach, sex=mix), (dev\_stage=17 days  
 embryo, tissue\_type=kidney, sex=mix), (dev\_stage=17 days  
 pregnant, adult, tissue\_type=amnion, sex=female),  
 (dev\_stage=13 days embryo, tissue\_type=liver, sex=mix)"

ORIGIN  
 Query Match 24.2%; Score 33.6; DB 5; Length 448;  
 Best Local Similarity 61.4%; Pred. No. 20;  
 Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;  
 QY 47 TCTTGAAGAAGGGTGACTATTGTCGTGTTTATTAACCTGTTATCCCAAGCACCAT 106  
 |||||  
 Db 262 TCTTCTGAGCTGTCGGTCCACTGTTTCAGATCTCTTCACTGTTTTTCTTCAGACGCC 321  
 QY 107 AATCAAGCTAGACTGCTTTCTTATTTGTTA 134  
 |||||  
 Db 322 ACACATTGCTTGACAGTCTCTTGTGTGCA 349

RESULT 8  
 AZ435636/c  
 LOCUS  
 DEFINITION  
 ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

AZ435636 570 bp DNA linear GSS 03-OCT-2000  
 IM0222H14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC1M0222H14 R, genomic survey sequence.  
 AZ435636  
 GSS  
 Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 570)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: [ddunn@genetics.utah.edu](mailto:ddunn@genetics.utah.edu)  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0222 row: H column: 14  
 Seq primer: CACACAGGAAACAGCATGACC  
 Class: plasmid ends  
 High quality sequence stop: 570.  
 Location/Qualifiers  
 1. 570  
 /organism="Mus musculus"



ORIGIN	Query Match	Best Local Similarity	Score	DB 4	Length	605	Mismatches	Conservative	0	Gaps	0
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
216	CTGAAAAACAGTGGAGTTGTTTTG	243									
RESULT 12											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 11											
CA835622											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 10											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 9											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 8											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 7											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 6											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 5											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 4											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG	240									
RESULT 3											
CA834105											
LOCUS											
DEFINITION											
104	CTAATCAACGCTAGACTGTTCTTTATG	131									
213	CTGAAAAACAGTGGAGTTGTTTTG										

hours NaCl treatment prescreened for removal of highly abundant transcripts Mesembryanthemum crystallinum cDNA clone MCR045F12 5, mRNA sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

BM301497

BM301497.1 GI:18023872

EST.

Mesembryanthemum crystallinum (common iceplant)

Mesembryanthemum crystallinum  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
Caryophyllales; Alzooaceae; Mesembryanthemum.

1 (bases 1 to 674)

Cushman, J.C.

An expressed sequence tag database for the common ice plant,

Mesembryanthemum crystallinum

Unpublished (1997)

Contact: Cushman JC

Department of Biochemistry

University of Nevada

MS200, Reno, NV 89557-0014, USA

Tel: 775-784-1918

Fax: 775-784-1650

Email: jcushman@unr.edu

PCR Primers

FORWARD: T3 20mer

BACKWARD: T7 21mer

Plate: 046 row: F column: 12

Seq primer: T3 20mer

High quality sequence stop: 674.

FEATURES  
source

Location/Qualifiers

1..674

/organism="Mesembryanthemum crystallinum"

/mol\_type="mRNA"

/db\_xref="taxon:3544"

/clone="MCR045F12"

/tissue\_type="leaf"

/dev\_stage="six-week-old"

/clone\_lib="Ice plant Lambda Uni-Zap XR expression

library, 48 hours NaCl treatment prescreened for removal

of highly abundant transcripts"

/notes="Vector: Lambda Uni-Zap XR, Bluescript SK-; Site\_1:

EcoRI; Site\_2: XhoI"

ORIGIN

Query Match 24.2%; Score 33.6; DB 4; Length 674;  
Best Local Similarity 61.4%; Pred. No. 22;  
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 44 TTTTCTTCAGAAAGAGGTCGACTATTGTCGTGTTTATTAACTGTTTATCCCAAGAC 103

DB 156 TTTTTCATCAAAAGCAGGTCGACTTTGGGTTGAAATTTCTATCCCTTAATCAACAATCAC 215

QY 104 CATAATCAACGCTAGACTGTTCTTATTG 131

DB 216 CTGAAAAACAGTGGGAGTTGTTTGT 243

RESULT 14  
BM301422

LOCUS  
DEFINITION  
699 bp mRNA linear EST 22-JAN-2002  
MCR045F12 25886 Ice plant Lambda Uni-Zap XR expression library, 48  
hours NaCl treatment prescreened for removal of highly abundant  
transcripts Mesembryanthemum crystallinum cDNA clone MCR045F12 5,  
mRNA sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

BM301422

BM301422.1 GI:18023797

EST.

Mesembryanthemum crystallinum (common iceplant)

Mesembryanthemum crystallinum

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

Caryophyllales; Alzooaceae; Mesembryanthemum.

1 (bases 1 to 699)

REFERENCE

AUTHORS  
TITLE  
JOURNAL  
COMMENT

Cushman, J.C.

An expressed sequence tag database for the common ice plant,

Mesembryanthemum crystallinum

Unpublished (1997)

Contact: Cushman JC

Department of Biochemistry

University of Nevada

MS200, Reno, NV 89557-0014, USA

Tel: 775-784-1918

Fax: 775-784-1650

Email: jcushman@unr.edu

PCR Primers

FORWARD: T3 20mer

BACKWARD: T7 21mer

Plate: 045 row: F column: 12

Seq primer: T3 20mer

High quality sequence stop: 699.

FEATURES  
source

Location/Qualifiers

1..699

/organism="Mesembryanthemum crystallinum"

/mol\_type="mRNA"

/db\_xref="taxon:3544"

/clone="MCR045F12"

/tissue\_type="leaf"

/dev\_stage="six-week-old"

/clone\_lib="Ice plant Lambda Uni-Zap XR expression

library, 48 hours NaCl treatment prescreened for removal

of highly abundant transcripts"

/notes="Vector: Lambda Uni-Zap XR, Bluescript SK-; Site\_1:

EcoRI; Site\_2: XhoI"

ORIGIN

Query Match 24.2%; Score 33.6; DB 4; Length 699;  
Best Local Similarity 61.4%; Pred. No. 22;  
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 44 TTTTCTTCAGAAAGAGGTCGACTATTGTCGTGTTTATTAACTGTTTATCCCAAGAC 103

DB 156 TTTTTCATCAAAAGCAGGTCGACTTTGGGTTGAAATTTCTATCCCTTAATCAACAATCAC 215

QY 104 CATAATCAACGCTAGACTGTTCTTATTG 131

DB 216 CTGAAAAACAGTGGGAGTTGTTTGT 243

RESULT 15  
CR303205

LOCUS

DEFINITION

746 bp DNA linear GSS 28-FEB-2004

Medicago truncatula BAC ends cultivar Jemalong A17 of Medicago

truncatula, genomic survey sequence.

ACCESSION

CR303205

VERSION

CR303205.1 GI:44708225

GSS.

KEYWORDS

SOURCE

ORGANISM

Medicago truncatula (barrel medic)

Medicago truncatula

Eukaryota; Viridiplantae;

Streptophyta; Embryophyta;

Tracheophyta;

Spermatophyta; Magnoliophyta;

eudicotyledons; core eudicots;

rosids; eurosida I; Fabales;

Fabaceae; Papilionoideae;

Trifolieae;

Medicago.

1 (bases 1 to 746)

Genoscope.

AUTHORS

Direct Submission

TITLE

Submitted (25-FEB-2004)

JOURNAL

Genoscope - Centre National de Sequencage :

BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr

- Web : www.genoscope.cns.fr)

FEATURES

source

Location/Qualifiers

1..746

/organism="Medicago truncatula"

/mol\_type="genomic DNA"

/cultivar="Jemalong A17"

/db\_xref="taxon:3880"

/clone\_lib="MTE1"

/note="Vector: pIndigoBAC ; Site\_1: EcoRI ; Site\_2: EcoRI

```

; Debellie F. and Chalhoub B.-Genoscope sequence ID :
mte1-21P8FM1"

ORIGIN
Query Match          24.2%; Score 33.6; DB 9; Length 746;
Best Local Similarity 61.4%; Pred. No. 23;
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 50 TCAGAAAGAGGGTGACTATTGCTGCTGTTTATTAACTGTTTATCCCAAGCACCATAAT 109
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 517 TGATTAAAGAGTGTAGTATTAGTCAATTACATACACAATATATCCCAAGAGCACCAT 576
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 110 CAACGCTAGACTGTTCTTTATTGTTAAACA 137
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 577 CAATGATATACTATATCCAAAATGAACA 604
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 16
BE035174
LOCUS
DEFINITION MO22B09 MO Mesembryanthemum crystallinum cDNA 5' similar to
drought-induced protein di19, mRNA sequence.
ACCESSION BE035174
VERSION BE035174.1 GI:8330298
KEYWORDS EST.
SOURCE Mesembryanthemum crystallinum (common iceplant)
ORGANISM Mesembryanthemum crystallinum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Aizoaceae; Mesembryanthemum.
REFERENCE
AUTHORS Bohnert, H.J., Borchert, C., Brazille, S., Brooks, J., Eaton, M.,
Ferreira, H., Kawasaki, S., McColough, A., Michalowski, C.B.,
Palacio, C., Scara, G., Wheeler, M. and Zepeda, G.R.
TITLE Functional Genomics of Plant Stress Tolerance
JOURNAL Unpublished (2000)
COMMENT Contact: Michalowski, C.B.
University of Arizona
Bio Sciences West room 513, Tucson, AZ 85721, USA
Tel: 520-621-7982
Fax: 520-621-1697
Email: cbm@u.arizona.edu
An open reading frame exists.
FEATURES
source
Location/Qualifiers
1..863
/organism="Mesembryanthemum crystallinum"
/mol_type="mRNA"
/db_xref="taxon:3544"
/tissue_type="apical meristem and leaf primordia"
/dev_stage="5 weeks"
/clone_lib="MO"
/notes="no stress"

ORIGIN
Query Match          24.2%; Score 33.6; DB 2; Length 863;
Best Local Similarity 61.4%; Pred. No. 23;
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 44 TTTTCTTCAGAAAGAGGGTGACTATTGCTGCTGTTTATTAACTGTTTATCCCAAGCAC 103
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 168 TTTTCATCAAAAGCAGGTGACTTTTGGGTTGAAATCTTATCCCTAATCAACAATAC 227
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 104 CATAATCAACGCTAGACTGTTCTTTATTG 131
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 228 CTGAAAAAACAGTGGGAGTTTGTGTTTG 255
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 17
CR308064
LOCUS
DEFINITION Medicago truncatula BAC ends cultivar Jemalong A17 of Medicago
truncatula, genomic survey sequence.
ACCESSION CR308064

```

```

CR308064.1 GI:44854208
GSS.
Medicago truncatula (barrel medic)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
Medicago.
1 (bases 1 to 866)
Genoscope.
Direct Submission
Submitted (25-FEB-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)
- Web : www.genoscope.cns.fr)
Location/Qualifiers
1..866
/organism="Medicago truncatula"
/mol_type="genomic DNA"
/cultivar="Jemalong A17"
/db_xref="taxon:3880"
/clone_lib="WTE1"
/notes="Vector: pindigoBAC ; Site 1: EcoRI ; Site 2: EcoRI
; Debellie F. and Chalhoub B.-Genoscope sequence ID :
mte1-29K6FM1"

ORIGIN
Query Match          24.2%; Score 33.6; DB 9; Length 866;
Best Local Similarity 61.4%; Pred. No. 23;
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 50 TCAGAAAGAGGGTGACTATTGCTGCTGTTTATTAACTGTTTATCCCAAGCACCATAAT 109
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 516 TGATTAAAGAGTGTAGTATTAGTCAATTACATACACAATATATCCCAAGAGCACCAT 575
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 110 CAACGCTAGACTGTTCTTTATTGTTAAACA 137
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 576 CAATGATATACTATATCCAAAATGAACA 603
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 18
CR952370
LOCUS
DEFINITION MBEAT30TR mth2 Medicago truncatula genomic clone 15F12, genomic
survey sequence.
ACCESSION CR952370
VERSION CR952370.1 GI:39864834
KEYWORDS GSS.
SOURCE Medicago truncatula (barrel medic)
ORGANISM Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
Medicago.
1 (bases 1 to 889)
Town, C.D., Shetty, J., Koo, H. and Feildblyum, T.F.
Sequencing of BAC ends from Medicago truncatula
Unpublished (2003)
Other GSSs: MBEAT30TF
Contact: Chris Town
TIGR
9712 Medical Center Drive, Rockville, MD 20850, USA.
Tel: 301-838-3523
Fax: 301-838-0208
Email: cdtown@tigr.org
Seq primer: CAGGAACAGCTATGACC
Class: BAC ends.
Location/Qualifiers
1..889
/organism="Medicago truncatula"
/mol_type="genomic DNA"
/cultivar="genotype A17"
/db_xref="taxon:3880"
/clone="15F12"

```

```

/clone_lib="mth2"
/notes="vector: pBelOBAC11; Site 1: HindIII; Site 2:
HindIII; Cook, D.R. and Kim, D.J., unpublished"
ORIGIN
Query Match      24.2%; Score 33.6; DB 9; Length 889;
Best Local Similarity 63.8%; Pred. No. 23;
Matches 51; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 44 TTTTCTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTTATCCCAAGAC 103
    |||||
Db 356 TATTGATGATTAGAGAGTGATGATTAGTCAATACATACATATATCCCAAGAG 415
    |||||

QY 104 CATATCAACGCTAGACTGT 123
    |||||
Db 416 CATCATCAATGATATACTAT 435

RESULT 19
BE037111
LOCUS
DEFINITION
  BE037111 1192 bp mRNA linear EST 07-JUN-2000
  MP15807 MP Mesembryanthemum crystallinum cDNA 5' similar to
  drought-induced protein di19, mRNA sequence.
ACCESSION
  BE037111
VERSION
  BE037111.1 GI:8332127
SOURCE
  Mesembryanthemum crystallinum (common iceplant)
ORGANISM
  Mesembryanthemum crystallinum
  Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
  Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
  Caryophyllales; Alzooceae; Mesembryanthemum.
REFERENCE
  1 (bases 1 to 1192)
  Bohnert, H.J., Borchert, C., Brazille, S., Brooks, J., Eaton, M.,
  Ferreira, H., Kawasaki, S., McCollough, A., Michalowski, C.B.,
  Palacio, C., Scara, G., Wheeler, M. and Zepeda, G.R.
  Functional Genomics of Plant Stress Tolerance
  Unpublished (2000)
  Contact: Michalowski, C.B.
  University of Arizona
  Bio Sciences West room 513, Tucson, AZ 85721, USA
  Tel: 520-621-7982
  Fax: 520-621-1697
  Email: cbm@u.arizona.edu
  Insert Length: 1 Std Error: 0.00.
  Location/Qualifiers
    1..1192
    /organism="Mesembryanthemum crystallinum"
    /mol_type="mRNA"
    /db_xref="taxon:3544"
    /tissue_type="apical meristem and leaf primordia"
    /dev_stage="6 weeks"
    /clone_lib="Mp"
    /note="3 d 500mM NaCl"

ORIGIN
Query Match      24.2%; Score 33.6; DB 2; Length 1192;
Best Local Similarity 61.4%; Pred. No. 24;
Matches 54; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 44 TTTTCTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTTATCCCAAGAC 103
    |||||
Db 172 TTTTCATCAGAAAGAGGGTGACTTTGGTTGAAATCTTATCCCTAATCAACAATCAC 231
    |||||

QY 104 CATATCAACGCTAGACTGTTCTATG 131
    |||||
Db 232 CTGAAAAACAGTGGGAGTTGTTTG 259

RESULT 20
AQ830244/c
LOCUS
DEFINITION
  AQ830244 521 bp DNA linear GSS 27-AUG-1999
  HS_4825_B2_G12_SP6E CIT Approved Human Genomic Sperm Library D Homo
  sapiens genomic clone Plate=4825 Col=24 Row=N, genomic survey

```

```

sequence.
AQ830244
VERSION
  AQ830244.1 GI:5796306
SOURCE
  Homo sapiens (human)
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1 (bases 1 to 521)
  Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T.,
  Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and
  Hood, L.
  Sequence-tagged connectors: A sequence approach to mapping and
  scanning the human genome
  Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
PUBMED
  1049764
COMMENT
  Contact: Mahairas GG, Wallace JC, Hood L
  High Throughput Sequencing Center
  University of Washington
  401 Queen Anne Avenue North, Seattle, WA 98109, USA
  Tel: (206) 616-3618
  Fax: (206) 616-3887
  Email: jwallace@u.washington.edu
  Clones may be purchased from Research Genetics (info@resgen.com).
  BAC end Web Server: http://www.htsc.washington.edu
  Plate: 4825 row: N column: 24
  Seq primer: T7
  Class: BAC ends
  High quality sequence stop: 521.
  Location/Qualifiers
    1..521
    /organism="Homo sapiens"
    /mol_type="genomic DNA"
    /db_xref="taxon:9606"
    /clone="Plate=4825 Col=24 Row=N"
    /sex="male"
    /clone_lib="CIT Approved Human Genomic Sperm Library D"
    /note="Organ: sperm; Vector: pBelOBAC11; BAC Clones in
    E-Coli DH10B"

ORIGIN
Query Match      24.0%; Score 33.4; DB 8; Length 521;
Best Local Similarity 54.5%; Pred. No. 24;
Matches 67; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TGACTCTGTCGACGAACTTAATAATGCTGCTCACCTCTTTCTTCAGAAAGGG 61
    |||||
Db 407 TGACTCTGGGCAAGTCACATAAACTGTCAGTCTCAATTTCTTTTAAAAATAGGG 348
    |||||

QY 62 TGACTATTGTCTGGTTTATTAACTGTTATCCCAAGCACCAATCAACGCTAGACT 121
    |||||
Db 347 ATGCTAATAATAAAAGCAGCACTGCTCAAGGATTAGTACTATTAATCAAAATG 288
    |||||

QY 122 GTT 124
    ||
Db 287 CTT 285

RESULT 21
AQ308530
LOCUS
DEFINITION
  AQ308530 728 bp DNA linear GSS 02-JUN-2004
  Mus musculus molossinus DNA, clone:MSG01-090D23.TJ, genomic survey
  sequence.
ACCESSION
  AQ308530
VERSION
  AQ308530.1 GI:47881484
SOURCE
  Mus musculus molossinus
ORGANISM
  Mus musculus molossinus
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
  1
  Hattori, M., Toyoda, A., Noguchi, H., Kojima, T. and Sakaki, Y.

```





system. Genome Res. 9 (5), 463-470 (1999)  
Carninci, P. and Hayashizaki, Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

FEATURES

source  
1. .205  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="4732458014"  
/sex="mixed"  
/tissue\_type="skin"  
/dev\_stage="10 days neonate"  
/lab\_host="DH10B"  
/clone\_lib="RIKEN full-length enriched, 10 day neonate  
skin"  
/notes="Site 1: SalI; Site 2: BamHI; cDNA library was  
prepared and sequenced in Mouse Genome Encyclopedia  
Project of Genome Exploration Research Group in Riken  
Genomic Sciences Center and Genome Science Laboratory in  
RIKEN Division of Experimental Animal Research in Riken  
contributed to prepare mouse tissues. 1st strand cDNA was  
primed with a primer [5'  
GAGAGAGAGAGATCCAGAGCTTTTTTTTTTTTNN 3'], cDNA was  
prepared by using trehalose thermo-activated reverse  
transcriptase and subsequently enriched for full-length by  
cap-trapper. cDNA went through one round of normalization  
to Rot = 10.0 and subtraction to Rot = 100.0. Second  
strand cDNA was prepared with the primer adapter of  
sequence [5' GAGAGAGAGATTCGAGTTAATTAATTAATCCCCCCCCCC  
3']. cDNA was cloned into the XhoI and BamHI sites.  
Vector: a modified pBluescript KS(+) after bulk excision  
from Lambda FLC I"

ORIGIN

Query Match 23.9%; Score 33.2; DB 2; Length 205;  
Best Local Similarity 57.8%; Pred. No. 23;  
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;  
QY 35 CTCACCTCTTCTTCAGAGAGGGTGACATTTGTCGTTTATTAACTGTTATCC 94  
DB 13 CTCACCTCTTCTTGTCTGAGCAGTTCTCCCACTTTTCAGATCTTTTCACTGTTTCT 72  
QY 95 CCAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAAC 136  
DB 73 TCAGACACCCACACATTGCTTGACATTCCTTGTGTAC 114

RESULT 24  
BZ915818  
LOCUS  
DEFINITION  
CH240\_59A23.TV CHORI-240 Bos taurus genomic clone CH240\_59A23,  
genomic survey sequence.

ACCESSION  
BZ915818  
VERSION  
BZ915818.1 GI:31641204  
KEYWORDS  
SOURCE  
GSS.  
Bos taurus (cow)  
ORGANISM  
Bos taurus

REFERENCE  
AUTHORS  
Larkin, D.M., Everes-van der Wind, A., Rebeiz, M., Schweitzer, P.,  
Bachman, S., Green, S., Campos, E.J., Benson, L.D., Edwards, J., Liu, L.,  
Womack, J.E., de Jong, P.J. and Lewin, H.A.  
A Cattle-Human Comparative Map Built with Cattle BAC-ends and Human  
Genome Sequence  
Unpublished (2003)

TITLE  
JOURNAL  
COMMENT  
Contact: Harris Lewin  
Department of Animal Sciences

University of Illinois at Urbana Champaign  
1201 W. Gregory Dr., Urbana, IL 61801, USA  
Tel: 217 333 5998  
Fax: 217 244 5617  
Email: h-lewin@uiuc.edu  
Clones are derived from the bovine BAC library CHORI-240  
(<http://www.chori.org/bacpac/bovine240.htm>). For BAC library  
availability, please contact Pieter de Jong ([pdejong@mail.cho.org](mailto:pdejong@mail.cho.org)).  
Clones may be purchased from BACPAC Resources  
(<http://www.chori.org/bacpac/ordering/information.htm>). This work  
was undertaken as part of the International Bovine BAC Mapping  
Consortium (IBBMC) by University of Illinois at Urbana  
Champaign, USA with funds provided by grant No. AG202-34480-11828  
from USDA-CSREES and AG99-35205-8534 from USDA/NRI (Livestock  
Genome Sequencing Initiative)  
Plate: 59 row: A column: 23  
Seq primer: T7  
Class: BAC ends.

Location/Qualifiers  
1. .467  
/organism="Bos taurus"  
/mol\_type="genomic DNA"  
/strain="breed: Hereford"  
/db\_xref="taxon:9913"  
/clone="CH240\_59A23"  
/sex="Male"  
/cell\_type="Blood"  
/clone\_lib="CHORI-240"  
/note="Vector: pTARBAC1.3; Site 1: MboI; Site 2: MboI;  
Hereford bull Li Domino 99375; CHORI-240 Bovine BAC  
library (Male) produced by Pieter de Jong"

ORIGIN

Query Match 23.7%; Score 33; DB 8; Length 467;  
Best Local Similarity 58.8%; Pred. No. 31;  
Matches 57; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 18 ACTTAATAATGCTGCTCACCTCTTTTCTTCAGAAAGAGGTCATTTGTCGTGT 77  
DB 46 ACTTATTTCTGATGTTCCCTCCAGATGATTTCAACAAGAGCTGTAAGTTTTGTGAG 105  
QY 78 TTATTAACGTGTTATCCCAAGACCACCAATCAACG 114  
DB 106 TTATTATATGTAACTCACAATAAACAATGAGCAAG 142

ORIGIN

Query Match 23.7%; Score 33; DB 8; Length 467;  
Best Local Similarity 58.8%; Pred. No. 31;  
Matches 57; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 18 ACTTAATAATGCTGCTCACCTCTTTTCTTCAGAAAGAGGTCATTTGTCGTGT 77  
DB 46 ACTTATTTCTGATGTTCCCTCCAGATGATTTCAACAAGAGCTGTAAGTTTTGTGAG 105  
QY 78 TTATTAACGTGTTATCCCAAGACCACCAATCAACG 114  
DB 106 TTATTATATGTAACTCACAATAAACAATGAGCAAG 142

RESULT 25

AV336201

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT

LABORATORY

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

GENOMIC

RESEARCH

GROUP

RIKEN

Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/  
Sasaki,N., Izawa,M., Watahiki,M., Ozawa,K., Tanaka,T., Yoneda,Y.,  
Matsuura,S., Carninci,P., Muramatsu,M., Okazaki,Y. and  
Hayashizaki,Y.  
Transcriptional sequencing: A method for DNA sequencing using RNA  
polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)  
Itochi,M., Kusunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,  
Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M.,  
Okazaki,Y. and Hayashizaki,Y.  
Automated filtration-based high-throughput plasmid preparation  
system. Genome Res. 9 (5), 463-470 (1999)  
Carninci,P. and Hayashizaki,Y.  
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,  
19-44 (1999)  
Please visit our web site (<http://genome.rtc.riken.go.jp>) for  
further details.

#### FEATURES

source  
1..206  
Location/Qualifiers  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="6330583F07"  
/sex="male"  
/tissue\_type="medulla oblongata"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/clone\_lib="RIKEN full-length enriched, adult male medulla oblongata"  
/notes="Site 1: SalI; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTTTNN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGATCTCGAGTTATTAATTAAATCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"

#### ORIGIN

Query Match 23.6%; Score 32.8; DB 1; Length 206;  
Best Local Similarity 56.8%; Pred. No. 31;  
Matches 61; Conservative 0; Mismatches 47; Indels 0; Gaps 0;  
QY 27 ATGCGCTCCTCACCCCTCTTTCTTCAGAAAGAGGGTGACTATTGTCTGTTTATTAACT 86  
DB 6 ATAGATGCTTCAGGCTTTCTTCTCTGAGCTTTCTCCACATTTTCAGATTATTAACT 65  
QY 87 GTTATCCCAAGAGCACCATATCAACGCTAGACTGTTCTTATTGTTA 134  
DB 66 GTTTTCTTCAGGACACCCACACATTTGCTTGACATTTCTCTTGCTGA 113

#### RESULT 26

BZ035953/c  
LOCUS BZ035953 690 bp DNA linear GSS 09-OCT-2002  
DEFINITION oeh99d03.g1 B.oleracea02 Brassica oleracea genomic, genomic survey sequence.  
ACCESSION BZ035953

#### VERSION

BZ035953.1 GI:23614280

#### KEYWORDS

Source

#### ORGANISM

Brassica oleracea  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
rosids; eustoids II; Brassicales; Brassicaceae; Brassica.

#### REFERENCE

1 (bases 1 to 690)

#### AUTHORS

Delehaunty,K., Fewell,G., Fulton,L., McCombie,W.R., Miner,T.,

Nash,W., Rabinowicz,P.D. and Wilson,R.K.

Whole genome shotgun reads from Brassica oleracea

#### TITLE

Unpublished (2002)

#### JOURNAL

Contact: Richard K. Wilson

#### COMMENT

Genome Sequencing Center

Washington University School of Medicine

Email: [submissions@watson.wustl.edu](mailto:submissions@watson.wustl.edu)

Plate: oeh99 row: d column: 03

Seq primer: -28RppOT reverse

Class: shotgun

High quality sequence start: 17

High quality sequence stop: 551.

Location/Qualifiers

1..690

/organism="Brassica oleracea"

/mol\_type="genomic DNA"

/db\_xref="taxon:3712"

/clone\_lib="B.oleracea002"

/note="Vector: pOTw13; Whole genome shotgun library from

flowering buds. DNA was purified from a crude nuclear

prep using Brassica oleracea T0100DH3 buds provided by

Thomas Osborn at the University of Wisconsin. Genomic

DNA was provided by Pablo Rabinowicz (CSHL) and the

shotgun library prepared at Washington University Genome

Sequencing Center."

#### ORIGIN

Query Match 23.6%; Score 32.8; DB 8; Length 690;  
Best Local Similarity 56.5%; Pred. No. 38;  
Matches 61; Conservative 0; Mismatches 47; Indels 0; Gaps 0;  
QY 30 CTGCGCTCACCCCTCTTTCTTCAGAAAGAGGGTGACTATTGTCTGTTTATTAACTGT 89  
DB 610 CGAGCACATCTCTCTCTGTTTGAAGAGAGTTTCTCTTTTGTCAAAACATGATCATA 551  
QY 90 TATCCCCAAGCACCATAATCAACGCTAGCTGTTCTTATTGTTAACA 137  
DB 550 TATATATATATATATATATATCAAGCTACAGTTTCTGACAAGTACCA 503

#### RESULT 27

BZ230680  
LOCUS BZ230680 252 bp mRNA linear EST 04-JUL-2000  
DEFINITION musculus cDNA clone A630028L21 3', mRNA sequence.  
ACCESSION BZ230680  
VERSION BZ230680.1 GI:8910593  
KEYWORDS EST.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
1 (bases 1 to 252)  
Konno,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T.,  
Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatae,N.,  
Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M.,  
Izawa,M., Kadota,K., Kagawa,I., Kai,C., Kawai,J., Kikuchi,N.,  
Kiyosawa,H., Kojima,Y., Kondo,S., Koya,S., Kurihara,C.,  
Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H.,  
Okazaki,Y., Ono,T., Owa,C., Saito,H., Sakai,C., Sato,K.,  
Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T.,  
Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Tagawa,A.,  
Takahashi,F., Tomimaga,N., Toya,T., Tsunoda,Y., Watanishi,A.,  
Watanabe,S., Yamamura,T., Yamanaka,I., Yano,R., Yasunishi,A.,

Yokota,T., Yoshida,K., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.  
 RIKEN Mouse ESTs (Konno,H., et al.)  
 Unpublished (2000)  
 Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsr.riken.jp, URL:http://genome.gsc.riken.jp/  
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
 Thermosensitization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh,M., Kiteunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for further details.  
 Location/Qualifiers  
 1. .252  
 /organism="Mus musculus"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:10090"  
 /clone="A630028L21"  
 /tissue\_type="thymus"  
 /dev\_stage="3 days neonate"  
 /lab\_host="DH10B"  
 /clone\_lib="RIKEN full-length enriched, 3 days neonate thymus"  
 /notes="Site 1: Salt; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5'  
 GAGAGAGAGAGATCTCGAGTTAAATTAATATCCGCCGCCGCC  
 GAGAGAGAGAGATCTCGAGTTAAATTAATATCCGCCGCCGCC  
 3'] cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."  
 ORIGIN  
 Query Match 23.3%; Score 32.4; DB 2; Length 252;  
 Best Local Similarity 56.6%; Pred. No. 42;  
 Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0;  
 QY 31 CTGCCTCACCCTCTTTCTTTCAGAAAGAGGGTGACTATTGCTGCTGTTTAACTGTTT 90  
 |||||  
 DB 56 CTGCTCCAGGCTCTCTCTCTCTGACCTTCTTCCACCTGTTTCAGATTCTTCACGTGTT 115  
 |||||  
 QY 91 ATCCCAAGACACATTAATCAACGCTAGACTGTTCTATTGTTAAC 136  
 |||||  
 DB 116 TTCTTCAGGACACCCACATTTGCTTGACGTCCTTGTGTGACC 161  
 |||||  
 RESULT 28  
 BB118576  
 LOCUS BB118576 270 bp mRNA linear EST 27-JUN-2000

DEFINITION  
 ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT  
 FEATURES  
 source

BB118576 RIKEN full-length enriched, adult male urinary bladder Mus musculus cDNA clone 9530066116 3', mRNA sequence.  
 BB118576  
 BB118576.1 GI:8771144  
 EST.  
 Mus musculus (house mouse)  
 Mus musculus  
 Mus musculus  
 Bunkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 270)  
 Konno,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kagawa,I., Kai,C., Kawai,J., Kikuchi,N., Kiyosawa,H., Kojima,Y., Kondo,S., Koya,S., Kurihara,C., Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Ono,T., Owa,C., Saito,H., Sakai,C., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Tagawa,A., Takahashi,F., Tominaga,N., Toya,T., Tsunoda,Y., Watahiki,A., Watanabe,S., Yamamura,T., Yamanaka,I., Yano,R., Yasunishi,A., Yokota,T., Yoshida,K., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.  
 RIKEN Mouse ESTs (Konno,H., et al.)  
 Unpublished (2000)  
 Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@gsr.riken.jp, URL:http://genome.gsc.riken.jp/  
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.  
 Thermosensitization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)  
 Itoh,M., Kiteunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.  
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)  
 Carninci,P. and Hayashizaki,Y.  
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)  
 Please visit our web site (http://genome.rtc.riken.go.jp) for further details.  
 Location/Qualifiers  
 1. .270  
 /organism="Mus musculus"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:10090"  
 /clone="9530066116"  
 /sex="male"  
 /tissue\_type="urinary bladder"  
 /dev\_stage="adult"  
 /lab\_host="DH10B"  
 /clone\_lib="RIKEN full-length enriched, adult male urinary bladder"  
 /note="Site 1: Salt; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5'  
 GAGAGAGAGAGATCTCGAGTTAAATTAATATCCGCCGCCGCC  
 GAGAGAGAGAGATCTCGAGTTAAATTAATATCCGCCGCCGCC  
 3'] cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."  
 ORIGIN  
 Query Match 23.3%; Score 32.4; DB 2; Length 252;  
 Best Local Similarity 56.6%; Pred. No. 42;  
 Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0;  
 QY 31 CTGCCTCACCCTCTTTCTTTCAGAAAGAGGGTGACTATTGCTGCTGTTTAACTGTTT 90  
 |||||  
 DB 56 CTGCTCCAGGCTCTCTCTCTCTGACCTTCTTCCACCTGTTTCAGATTCTTCACGTGTT 115  
 |||||  
 QY 91 ATCCCAAGACACATTAATCAACGCTAGACTGTTCTATTGTTAAC 136  
 |||||  
 DB 116 TTCTTCAGGACACCCACATTTGCTTGACGTCCTTGTGTGACC 161  
 |||||  
 RESULT 28  
 BB118576  
 LOCUS BB118576 270 bp mRNA linear EST 27-JUN-2000

CONTACT: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center (GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-resgsc.riken.jp, URL: <http://genome.gsc.riken.jp/>  
Aizawa, K., Akimura, T., Arakawa, T., Carninci, P., Fukuda, S.,

MEDLINE 93380589  
PUBMED 10449764  
COMMENT

Contact: Mahairas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618  
Fax: (206) 616-3887  
Email: jwallace@u.washington.edu  
Clones may be purchased from Research Genetics (info@resgen.com).  
BAC end Web Server: http://www.htsc.washington.edu  
Plate: 3169 row: B column: 11  
Seq primer: T7  
Class: BAC ends  
High quality sequence stop: 906.

FEATURES

source  
1. .906  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/clone="Plate=3169 Col=11 Row=B"  
/sex="male"  
/clone\_lib="CIT Approved Human Genomic Sperm Library D"  
/note="Organ: sperm; Vector: pBelobAC11; BAC Clones in  
E-Coli DH10B"

ORIGIN

Query Match 23.3%; Score 32.4; DB 8; Length 906;  
Best Local Similarity 56.6%; Pred. No. 53;  
Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0;  
Qy 34 CCTCACCCCTCTTTTTCAGAAAGAGGGTGACTATTGTCTGGTTTATTAACTGTTTATC 93  
Db 690 CCCCCTCCTCTTTTTTTTAAAGAGGGTTTGATTTTTTTTTTTTTTTTTTTTTC 749  
Qy 94 CCCAAGCACCAATCAACGCTAGACTGTTCTTATTGTTAAACACA 139  
Db 750 TTTCCCCCCCCCAAAAAAAACCCCTCCTCGTTGTGGGAAAAA 795

Search completed: December 22, 2004, 03:30:59  
Job time : 1755 secs

*This Page Blank (uspto)*